## Ferdinando FIORETTO

#### Assistant Professor

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- Rice Hall 307, Computer Science, University of Virginia, Charlottesville VA 22903 U.S.A.

Research Interests : Machine Learning | Differential Privacy | Algorithmic Fairness | Al for Science and Engineering

## Professional Experience

<b>University of Virginia</b> , <i>Computer Science</i> , Charlottesville, VA Assistant Professor
<b>Syracuse University</b> , <i>Electrical Engineering &amp; Computer Science</i> , Syracuse, NY ASSISTANT PROFESSOR

## Education and Training

Dec. 2019	<b>Georgia Institute of Technology</b> , <i>School of Industrial and System Engineering</i> , Atlanta, GA
Sep. 2018	Post-doctoral Researcher
Dec. 2018	<b>University of Michigan</b> , <i>Industrial and Operations Engineering</i> , Ann Arbor, MI
Sep. 2016	RESEARCH FELLOW
Aug. 2016	<b>University of Udine</b> <sup>1</sup> , <i>Computer Science</i> , Udine, IT
Jan. 2012	Ph.D. IN COMPUTER SCIENCE
Dec. 2011	<b>New Mexico State University</b> , <i>Computer Science</i> , Las Cruces, NM
Aug. 2010	MS. IN COMPUTER SCIENCE
Nov. 2009	University of Parma, Computer Science & Mathematics, Parma, IT

BS. IN COMPUTER SCIENCE

## Selected Honors and Awards

#### 2025 Academic Grant Program Award, NVIDIA. 🗷 Link

> The NVIDIA Academic Grant Program is a competitive program providing world-class computing access and resources to selected researchers.

#### 2025 Fellowship in AI Research, LaCross Institute. 🗹 Link

#### > Project name : "Privacy and Fairness in AI Pipelines : From Data Collection to Decision-Making".

The LaCross AI Institute was established in 2024 with the mission to make the world a better place through the responsible use of AI in business by developing leaders who can manage AI businesses and solutions, guided by ethics, values, and the advancement of human well-being. The Fellowships in AI Research program, supports scholars engaging in research that has beneficial practical societal outcomes and provides the foundation of r substantive future work.

#### 2022 Caspar Bowden PET Award, Privacy Enhancing Technologies (PETs). C Link

> The Caspar Bowden PET award for Outstanding Research in Privacy Enhancing Technologies is presented annually to researchers whose work makes an outstanding contribution to the theory, design, implementation, or deployment of privacy enhancing technology. The 2022 award was selected among all qualifying papers (published in **any** venue in the years 2020–2021).

The award letter reads : "Your paper Decision Making with Differential Privacy under the Fairness Lens received the award especially for advancing the understanding of DP and fairness trade-offs in decision making, providing a theoretical framework and exploring a highly relevant practical problem."

#### 2022 NSF CAREER Award, National Science Foundation. C Press

#### > Project name : "End-to-end Constrained Optimization Learning".

The Faculty Early Career Development (CAREER) Program is a Foundation-wide activity that offers the National Science Foundation's most prestigious awards in support of early-career faculty who have the potential to serve as academic role models in research and education and to lead advances in the mismission of their de-

1. Dual degree with New Mexico State University

partment or organization. Activities pursued by early-career faculty should build a firm foundation for a lifetime of leadership in integrating education and research.

#### 2022 Google Research Scholar Award, Google (Privacy). 🗹 Link

> Project name : "Equity of Differentially Private Decision Processes". The Research Scholar Program provides unrestricted gifts to support research at institutions around the world, and is focused on funding world-class research conducted by early-career professors.

#### 2022 Amazon Research Award, Amazon – AWS AI (Responsible AI). 🗹 Press

> Project name : "Toward Understanding the Unintended Disparate Impacts of Private ML Systems". The Amazon Research Awards is a competitive global program which offers unrestricted funds and AWS Promotional Credits to support research at academic institutions and non-profit organizations in areas that align Amazon's mission to advance science.

#### 2022 Best Paper Award, IEEE Transaction of Power Systems. C Link

> For paper : "Differentially Private Optimal Power Flow for Distribution Grids". This highly selective award was assigned to eight out of all IEEE-TPWRS papers published in 2019–2021.

#### 2022 Early Career Spotlight, International Joint Conference on Artificial Intelligence (IJCAI).

> Accompanying paper : "Integrating Machine Learning and Optimization to Boost Decision Making". The IJCAI Early Career Spotlight talks are aimed at providing an accessible introduction to the research directions of some of the most active early career researchers in AI. The talks are by invitation, based on nominations from the IJCAI program committee.

#### 2021 Early Career Researcher Award, Association for Constraint Programming.

> The Early Career Research Award is assigned by the Association for Constraint Programming to early career researchers for their contributions to constrained optimization.

In particular, this *inaugural* award was given "for contribution to constraint programming and, in particular, fundamental advances in distributed constraint satisfaction, constraint-based differential privacy, fairness in artificial intelligence, and their applications in energy, mobility, and census data."

#### 2021 Mario Gerla Young Investigator Award, ISSNAF. 🕑 Press

> Established by the Gerla family in 2019 in memory of Dr. Mario Gerla, professor of Computer Science at UCLA, the Italian Scientists and Scholars in North America Foundation confers the *Young Investigator Awards* every year to outstanding, early-career, Italian researchers working in North America, in recognition of their significant and innovative contributions to computer science. The award is conferred in coordination with the Italian Embassy in US.

#### 2021 Best Paper Award, IEEE Transaction of Power Systems. C Link

> For paper : "Privacy-Preserving Power System Obfuscation : A Bilevel Optimization Approach". This highly selective award was assigned to seven out of all IEEE-TPWRS papers published in 2018–2020.

#### 2017 Best AI Dissertation Award, AI\*IA. 🕑 Press

> For Thesis "Exploiting the Structure of Distributed Constraint Optimization Problems with Applications in Smart Grids."

The "Marco Cadoli' 'Best AI dissertation is assigned by the Italian Association for Artificial Intelligence (AI\*IA) to a Ph.D. doctor who have obtained the title in an Italian University based on the quality and impact of the thesis work.

#### OTHER AWARDS

- 2025 DARPA Disruptive Idea Award (with a \$100,000 funding), NeuS 2025.
- 2025 Best Paper Award, AAAI colorai workshop. 🗹 Link
- 2025 Outstanding Research Faculty Award (department nomination), University of Virginia.
- 2023 ICLR Notable Reviewer Award, International conference on Learning Representations (ICLR). C Link
- 2023 NMSU CS Star Award, New Mexico State University (NMSU). 🗹 Link
- 2022 Best Paper Award nomination, Conference on Neural Information Processing Systems (NeurIPS). 🗹 Link
- 2022 Top Reviewer Award, Conference on Neural Information Processing Systems (NeurIPS). 🗹 Link
- 2021 Outstanding Reviewer Award, Conference on Neural Information Processing Systems (NeurIPS). 🗹 Link
- 2020 Differentially Private Temporal Map Challenge Award, \$5000, NIST. C Press
- 2020 Young Investigator Award Nomination, ISSNAF. 🗹 Press
- 2019 Invited journal paper, International Joint Conference on Artificial Intelligence (IJCAI). 🗹 Link
- 2017 Most Visionary Workshop Paper Award, International Conference of Autonomous Agents and Multiagent Systems (AAMAS). 🖸 Link

- 2016 Top Graduate Student Honor's Cord, NMSU.
- 2014 Outstanding Research Assistant Award, Computer Science, NMSU. 🗹 Press
- 2014 Outstanding Teaching Assistant Nomination, NMSU.
- 2013 Best Student Paper Award, Computational Methods in System Biology (CMSB). 🗹 Link
- 2013 **Ph.D. Scholarship Award (~\$50,000)**, University of Udine.
- 2013 Outstanding Teaching Assistant Award, Computer Science, NMSU. 🗹 Press
- 2013 Computer Science Scholarship (\$1500), NMSU.
- 2012 Honors Graduate Recognition for Outstanding Academic Success, NMSU.
- 2008 Erasmus Scholarship ( $\sim$  \$14,000), University of Leeds.

#### Publications

Summary :	> 78 Conference papers <sup>†</sup> > 14 Journals articles > 32 Workshop papers <sup>†</sup> > 3 Editorial articles
	> 4 Book chapters > 1 Book > 19 Preprints

Total citations : 3014 H-index : 27 🞓 Google Scholar

<sup>†</sup>: In highly competitive venues.

- > Names of students I supervise(d) are appended with symbol 4.
- > In computer science publications, author order usually follows contribution, where students are first authors and faculty advisors are listed last to reflect their supervisory role.
- > When the symbol  $[\alpha/\beta]$  is used, authors are ordered alphabetically.
- > When the symbol [c] is used, author ordered follows contribution, regardless of their advisor or seniority role.
- > Award winning papers are highlighted with symbol  $\Psi$ .

#### Воокѕ

 Differential Privacy in Artificial Intelligence : From Theory to Practice. [%] Ferdinando Fioretto and Pascal Van Hentenryck. Now Publisher, 2025 (forthcoming).

#### **RIGOROUSLY PEER REVIEWED CONFERENCES**

In computer science, conference proceedings serve as the primary outlet for disseminating significant research contributions.

- [78] Multi-Agent Path Finding in Continuous Spaces with Projected Diffusion Models. [%] Jinhao Liang<sup>4</sup>, Jacob K. Christopher<sup>4</sup>, Sven Koenig, Ferdinando Fioretto.
   International Conference on Machine Learning (ICML), 2025.
   [Acceptance Rate : 26.9%].
- [77] Neuro-symbolic Generative Diffusion Models for Physically Grounded, Robust, and Safe Generation. [%] Jacob K. Christopher<sup>4</sup>, Michael Cardei<sup>4</sup>, Jinhao Liang<sup>4</sup>, Ferdinando Fioretto.
- International Conference on Neuro-symbolic Systems (NeuS), 2025.
   [Acceptance Rate: 40%].
   [Oral & DARPA Disruptive Idea Award (includes a \$100,000 award in funding)] (5 %).
- [76] The Data Minimization Principle in Machine Learning. [%]
   Prakhar Ganesh, Cuong Tran<sup>♣</sup>, Reza Shokri, Ferdinando Fioretto.
   ACM Conference on Fairness, Accountability, and Transparency (FAccT), 2025.
   [Acceptance Rate : 26.8%].
- [75] Learning To Solve Differential Equation Constrained Optimization Problems. [%] Vincenzo Di Vito<sup>4</sup>, Mostafa Mohammadian, Kyri Baker, Ferdinando Fioretto.
- International Conference on Learning Representations (ICLR), 2025.
   [Acceptance Rate : 32.02%].
   [Spotlight] (5.1% of the accepted papers / 0.01% of all submitted papers).
- [74] Speculative Diffusion Decoding : Accelerating Language Generation through Diffusion. [%] Jacob K. Christopher<sup>4</sup>, Michael Cardei<sup>4</sup>, Brian R Bartoldson, Bhavya Kailkhura, Ferdinando Fioretto.
- Nations of the Americas Chapter of the Association for Computational Linguistics (NAACL), 2025.
   [Acceptance Rate : 26.0%].
   [oral] (22% of the accepted papers / 0.9% of all submitted papers).

> Also appeared in [w27] at NeurIPS, 2024. [Accepted Rate : 29.0%].

- [73] Differentially Private Data Release on Graphs : Inefficiencies and Unfairness. [%]
   [α/β] Ferdinando Fioretto, Diptangshu Sen, Juba Ziani.
   International Conference on Artificial Intelligence and Statistics (AISTATS), 2025.
   [Acceptance Rate : 31.3%].
- [72] Fairness Issues and Mitigations in (Differentially Private) Socio-demographic Data Processes. [%] Joonhyuk Ko<sup>4</sup>, Juba Ziani, Saswat Das<sup>4</sup>, Matt Williams, Ferdinando Fioretto.
- AAAI Conference on Artificial Intelligence (AAAI), 2025.
   [Acceptance Rate : 19%].
   [Oral] (5% of the accepted papers / 1.9% of all submitted papers).
   > Also appeared in [w32] at AAAI, 2024. To formal (7.6% of the accepted papers).
- [71] FairDP: Certified Fairness with Differential Privacy. [%]
   [c] Khang Tran, Ferdinando Fioretto, Issa Khalil, My T. Thai, NhatHai Phan.
   IEEE Secure and Trustworthy Machine Learning Conference (SaTML), 2025.
   [Acceptance Rate : 29.4%].
- [70] Constrained Synthesis with Projected Diffusion Models. [%] Jacob K. Christopher<sup>4</sup>, Stephen Baek, Ferdinando Fioretto.
   Conference on Neural Information Processing Systems (NeurIPS), 2024.
   [Acceptance Rate : 25.8%].

> Also appeared in [w25,w28] at NeurIPS, 2024. To Contemporaries (39% acceptance rate)).

[69] Metric Learning to Accelerate Convergence of Operator Splitting Methods for Differentiable Parametric Programming. [%]

[c] Ethan King, James Kotary<sup>♣</sup>, Ferdinando Fioretto, Jan Drgona.
63rd IEEE Conference on Decision and Control (CDC), 2024.
[Acceptance Rate : 56.7%].

- [68] Predict-Then-Optimize by Proxy: Learning Joint Models of Prediction and Optimization. [%] James Kotary<sup>®</sup>, Vincenzo Di Vito<sup>®</sup>, Jacob K. Christopher<sup>®</sup>, Pascal Van Hentenryck, Ferdinando Fioretto. European Conference of Artificial Intelligence (ECAI), 2024. [Acceptance Rate : 23.3%].
- [67] On The Fairness Impacts of Hardware Selection in Machine Learning. [%] Sree Harsha Nelaturu<sup>a</sup>, Nishaanth Kanna Ravichandran<sup>a</sup>, Cuong Tran<sup>a</sup>, Sara Hooker, and Ferdinando Fioretto. International Conference on Machine Learning (ICML), 2024.
   [Acceptance Rate : 27.5%].
- [66] Disparate Impact on Group Accuracy of Linearization for Private Inference. [%] Saswat Das<sup>4</sup>, Marco Romanelli, Ferdinando Fioretto.
   International Conference on Machine Learning (ICML), 2024.
   [Acceptance Rate : 27.5%].
- [65] End-to-End Learning for Fair Multiobjective Optimization Under Uncertainty. [%] My H. Dinh<sup>4</sup>, James Kotary<sup>4</sup>, Ferdinando Fioretto.
   Conference of Uncertainty on Artificial Intelligence (UAI), 2024.
   [Acceptance Rate : 27.0%].
- [64] Fairness Increases Adversarial Vulnerability. [%] Cuong Tran<sup>®</sup>, Keyu Zhu, Pascal Van Hentenryck, Ferdinando Fioretto. International Joint Conference on Artificial Intelligence (IJCAI), 2024. [Acceptance Rate : 13.9%].
- [63] Learning Fair Ranking Policies via Differentiable Optimization of Ordered Weighted Averages. [%] My H. Dinh<sup>a</sup>, James Kotary<sup>a</sup>, Ferdinando Fioretto.
   ACM Conference on Fairness, Accountability, and Transparency (FAccT), 2024.
   [Acceptance Rate : 24.3%].
- [62] Finding ε and δ of Traditional Disclosure Control Systems. [%]
   [c] Ferdinando Fioretto, Keyu Zhu, Pascal Van Hentenryck, Saswat Das<sup>4</sup>, Christine Task.

AAAI Conference on Artificial Intelligence (AAAI), 2024. [Acceptance Rate : 23.75%].

- [61] Differentiable Approximations of Fair OWA Optimization. [%] My H. Dinh<sup>a</sup>, James Kotary<sup>a</sup>, Ferdinando Fioretto.
   Differentiable Almost Everything, at ICML, 2024.
   [Acceptance Rate : 27.0%].
- [60] Data Minimization at Inference Time. [%] Cuong Tran<sup>♣</sup> and Ferdinando Fioretto.
   Conference on Neural Information Processing Systems (NeurIPS), 2023. [Acceptance Rate : 23.0%].
- [59] Price-Aware Deep Learning for Electricity Markets. [%]
   Vladimir Dvorkin and Ferdinando Fioretto.
   Tackling Climate Change with Machine Learning, at NeurIPS, 2023.
   [Acceptance Rate : 35.0%].
- [58] Folded Optimization for End-to-End Model-Based Learning. [%] James Kotary<sup>a</sup>, My H. Dinh<sup>a</sup>, Ferdinando Fioretto.
   International Joint Conference on Artificial Intelligence (IJCAI), 2023.
   [Acceptance Rate : 15.0%].
- [57] SF-PATE : Scalable, Fair, and Private Aggregation of Teacher Ensembles. [%] James Kotary<sup>®</sup>, Vincenzo Di Vito<sup>®</sup>, Ferdinando Fioretto, Pascal Van Hentenryck. International Joint Conference on Artificial Intelligence (IJCAI), 2023. [Acceptance Rate : 15.0%].
- [56] End-to-End Combinatorial Ensemble Learning. [%] James Kotary<sup>4</sup>, Vincenzo Di Vito<sup>4</sup>, Ferdinando Fioretto.
   International Joint Conference on Artificial Intelligence (IJCAI), 2023.
   [Acceptance Rate : 15.0%].
- [55] On the Fairness Impacts of Private Ensembles Models. [%] Cuong Tran<sup>®</sup>, Ferdinando Fioretto.
   International Joint Conference on Artificial Intelligence (IJCAI), 2023. [Acceptance Rate : 15.0%].
- [54] Load Encoding for Learning AC-OPF. [%]
   [c] Terrence W.K. Mak, Ferdinando Fioretto, Pascal Van Hentenryck. Proceedings of the IEEE PES General Meeting (PES), 2023.
   [Acceptance Rate : Unknown].
- [53] An Analysis of the Reliability of AC Optimal Power Flow Deep Learning Proxies. [%]
   [c] My H. Dinh<sup>a</sup>, Ferdinando Fioretto, Mostafa Mohammadian, and Kyri Baker.
   IEEE PES Innovative Smart Grid Technologies, 2023.
   [Acceptance Rate : unknown].
- [52] End-to-End Optimization and Learning for Multiagent Ensembles. [%] James Kotary<sup>4</sup>, Vincenzo Di Vito<sup>4</sup>, Ferdinando Fioretto.
   International Conference on Autonomous Agents and Multiagent Systems (AAMAS), 2023. [Acceptance Rate : 40.0%].
- [51] Pruning has a disparate impact on model accuracy. [%] Cuong Tran<sup>4</sup>, Ferdinando Fioretto, Jung-Eun Kim, Rakshit Naidu<sup>4</sup>.
- Conference on Neural Information Processing Systems (NeurIPS), 2022.
   [Acceptance Rate : 25.6%].
   [Spotlight] (~3% of all paper submissions (10,411, in 2022).).
- [50] Post-processing of Differentially Private Data : A Fairness Perspective. [%]
   [c] Keyu Zhu, Ferdinando Fioretto, Pascal Van Hentenryck.
   International Joint Conference on Artificial Intelligence (IJCAI), 2022.
   [Acceptance Rate : 15.0%].

- [49] Differential Privacy and Fairness in Decisions and Learning Tasks : A Survey. [�]
   [c] Ferdinando Fioretto, Cuong Tran<sup>♣</sup>, Keyu Zhu, Pascal Van Hentenryck.
   International Joint Conference on Artificial Intelligence (IJCAI), 2022.
   [Acceptance Rate : 18.0% (survey track)].
- [48] Integrating Machine Learning and Optimization to Boost Decision Making. [%] Ferdinando Fioretto.
- International Joint Conference on Artificial Intelligence (IJCAI), 2022.
   [Acceptance Rate : Invited].
   [Early Career Spotlight] (Accompanying paper.).
- [47] End-to-end Learning for Fair Ranking Systems. [%]
   [c] James Kotary<sup>4</sup>, Ferdinando Fioretto, Pascal Van Hentenryck, Ziwei Zhu.
   ACM Web Conferences (WWW), 2022.
   [Acceptance Rate : 17.0%].
- [46] Fast Approximations for Job Shop Scheduling : A Lagrangian Dual Deep Learning Method. [%]
   [c] James Kotary<sup>a</sup>, Ferdinando Fioretto, Pascal Van Hentenryck.
   AAAI Conference on Artificial Intelligence (AAAI), 2022.
   [Acceptance Rate : 15.0%].
- [45] Differentially-Private Heat and Electricity Markets Coordination. [%] Lesia Mitridati, Emma Romei, Gabriela Hug, Ferdinando Fioretto.
   International Conference on Probabilistic Methods Applied to Power Systems (PMAPS), 2022. [Acceptance Rate : Unknown].
- [44] Learning Solutions for Intertemporal Power Systems Optimization with Recurrent Neural Networks. [%]
   [c] Mostafa Mohammadian, Kyri Baker, My H. Dinh<sup>a</sup>, Ferdinando Fioretto.
   International Conference on Probabilistic Methods Applied to Power Systems (PMAPS), 2022.
   [Acceptance Rate : Unknown].
- [43] Differentially Private Deep Learning under the Fairness Lens. [%] Cuong Tran<sup>®</sup>, My H. Dinh<sup>®</sup>, Ferdinando Fioretto.
   Conference on Neural Information Processing Systems (NeurIPS), 2021. [Acceptance Rate : 26.0%].
- [42] Learning Hard Optimization Problems : A Data Generation Perspective. [%] James Kotary<sup>®</sup>, [c] Ferdinando Fioretto, Pascal Van Hentenryck.
   Conference on Neural Information Processing Systems (NeurIPS), 2021. [Acceptance Rate : 26.0%].
- [41] Decision Making with Differential Privacy under the Fairness Lens. [%] [c] Cuong Tran<sup>4</sup>, Ferdinando Fioretto, Pascal Van Hentenryck, Zhiyan Yao<sup>4</sup>.
  - International Joint Conference on Artificial Intelligence (IJCAI), 560–566, 2021.
     [Acceptance Rate : 13.9%].
     [Winner of the 2022 Caspar Bowden PET Award] (Selected among all papers about Privacy Enhancing Technologies published in international conferences between 2020–2022.).
- [40] End-to-End Constrained Optimization Learning : A Survey. [%]
   [c] James Kotary<sup>a</sup>, Ferdinando Fioretto, Pascal Van Hentenryck, Bryan Wilder.
   International Joint Conference on Artificial Intelligence (IJCAI), 4475–4482, 2021.
   [Acceptance Rate : 30.1%].
- [39] Bias and Variance of Post-processing in Differential Privacy. [%]
   Keyu Zhu, Pascal Van Hentenryck, Ferdinando Fioretto.
   AAAI Conference on Artificial Intelligence (AAAI), 11177–11184, 2021.
   [Acceptance Rate : 21.0%].
- [38] Differentially Private and Fair Deep Learning: A Lagrangian Dual Approach. [S] Cuong Tran<sup>4</sup>, [c] Ferdinando Fioretto, Pascal Van Hentenryck.
   AAAI Conference on Artificial Intelligence (AAAI), 9932–9939, 2021.
   [Acceptance Rate : 21.0%].
- [37] A Privacy-Preserving and Accountable Multi-agent Learning Framework. [%]

Anudit Nagar<sup>4</sup>, Cuong Tran<sup>4</sup>, Ferdinando Fioretto. International Conference on Autonomous Agents and Multiagent Systems (AAMAS), 1605–1606, 2021. [Acceptance Rate : 40.0%].

- [36] Constrained-based Differential Privacy. [%]
   Ferdinando Fioretto.
   International Conference on Principles and Practice of Constraint Programming (CP), 1868–8969, 2021.
   [Acceptance Rate : Invited].
- [35] Differentially Private Optimal Power Flow for Distribution Grids. [%]
   [c] Vladimir Dvorkin, Ferdinando Fioretto, Pascal Van Hentenryck, Jalal Kazempour, Pierre Pinson.
   IEEE PowerTech, 2021.
   [Acceptance Rate : Unknown].
- [34] A Lagrangian Dual Framework for Deep Neural Networks with Constraints. [%]
   [c] Ferdinando Fioretto, Pascal Van Hentenryck, Terrence W.K. Mak, Cuong Tran<sup>♣</sup>, Federico Baldo, Michele Lombardi.
   European Conference on Machine Learning (ECML), 18–135, 2020.
   [Acceptance Rate : 19.0%].
- [33] Differential Privacy Stackebelg Games. [%]
   [c] Ferdinando Fioretto, Lesia Mitridati, Pascal Van Hentenryck.
   International Joint Conference on Artificial Intelligence (IJCAI), 3480–3486, 2020.
   [Acceptance Rate : 12.6%].
- [32] OptStream : Releasing Time Series Privately. [%] Ferdinando Fioretto, Pascal Van Hentenryck.
- International Joint Conference on Artificial Intelligence (IJCAI), 5135–5139, 2020.
   [Acceptance Rate : [Invited to the IJCAI journal track]].
   (selected papers only.).
- [31] Privacy-Preserving Obfuscation for Distributed Power Systems. [%]
   [c] Terrence W.K. Mak, Ferdinando Fioretto, Pascal Van Hentenryck.
   Power Systems Computation Conference (PSCC), 2020.
   [Acceptance Rate : 20.5%].
- [30] Predicting AC Optimal Power Flows : Combining Deep Learning and Lagrangian Dual Methods. [%] Ferdinando Fioretto, Terrence W.K. Mak, Pascal Van Hentenryck.
   AAAI Conference on Artificial Intelligence (AAAI), pages 630–637, 2020. [Acceptance Rate : 20.6%].
- [29] The Smart Appliance Scheduling Problem : A Bayesian Optimization Approach. [%] Atena Tabakhi, William Yeoh, Ferdinando Fioretto.
   International Conference on Principles and Practice of Multi-Agent Systems (PRIMA), 100–115, 2020. [Acceptance Rate : 38.0%].
- [28] Privacy-Preserving Federated Data Sharing. [%]
   Ferdinando Fioretto, Pascal Van Hentenryck.
   International Conference on Autonomous Agents and Multiagent Systems (AAMAS), pages 638–646, 2019.
   [Acceptance Rate : 24.0%].
- [27] Privacy-Preserving Obfuscation of Critical Infrastructure Networks. [%] Ferdinando Fioretto, Terrence W.K. Mak, Pascal Van Hentenryck. International Joint Conference on Artificial Intelligence (IJCAI), pages 1086–1092, 2019. [Acceptance Rate : 17.9%].
- [26] Differential Privacy of Hierarchical Census Data : An Optimization Approach. [%] Ferdinando Fioretto, Pascal Van Hentenryck.
- International Conference on Principles and Practice of Constraint Programming (CP), pages 639–655, 2019.
   [Acceptance Rate : 37.0%].
   [Invited to Constraint journal] (selected papers declined.).
- [25] Solving Multiagent Constraint Optimization Problems on the Constraint Composite Graph. [%]

Ferdinando Fioretto, Hong Xu, Sven Koenig, TK Satish Kumar. International Conference on Principles and Practice of Multi-Agent Systems (PRIMA), pages 106–122, 2018. [Acceptance Rate : 26.2%].

- [24] Constrained-based Differential Privacy for Private Mobility. [%] Ferdinando Fioretto, Chansoo Lee, Pascal Van Hentenryck.
   International Conference on Autonomous Agents and Multiagent Systems (AAMAS), pages 1405–1413, 2018. [Acceptance Rate : 25.2%].
- [23] A Large Neighboring Search Schema for Multi-Agent Optimization. [%] Khoi Hoang, Ferdinando Fioretto, William Yeoh, Enrico Pontelli, Roie Zivan.
   International Conference on Principles and Practice of Constraint Programming (CP), pages 688–706, 2018. [Acceptance Rate : 33.0%].
- [22] Constrained-based Differential Privacy : Releasing Optimal Power Flow Benchmarks Privately. [%] Ferdinando Fioretto, Pascal Van Hentenryck.
   International Conference on the Integration of Constraint Programming, Artificial Intelligence, and Operations Research (CPAIOR), pages 215–231, 2018.
   [Acceptance Rate : 48.0%].
- [21] Constraint Composite Graph-Based Lifted Message Passing for Distributed Constraint Optimization Problems. [%]
   Ferdinando Fioretto, Hong Xu, Sven Koenig, TK Satish Kumar.
   International Symposium on Artificial Intelligence and Mathematics (ISAIM), 2018.
   [Acceptance Rate : Unknown].
- [20] A Distributed Constraint Optimization (DCOP) Approach to the Economic Dispatch with Demand Response. [S] Ferdinando Fioretto, William Yeoh, Enrico Pontelli, Ye Ma, Satishkumar J. Ranade. International Conference on Autonomous Agents and Multiagent Systems (AAMAS), pages 999–1007, 2017. [Acceptance Rate : 24.9%].
- [19] A Multiagent System Approach to Scheduling Devices in Smart Homes. [S]
   Ferdinando Fioretto, William Yeoh, Enrico Pontelli.
   International Conference on Autonomous Agents and Multiagent Systems (AAMAS), pages 981–989, 2017.
   [Acceptance Rate : 24.9%].
- Infinite-Horizon Proactive Dynamic DCOPs. [%]
   Khoi Hoang, Ping Hou, Ferdinando Fioretto, Makoto Yokoo, William Yeoh, Roie Zivan.
   International Conference on Autonomous Agents and Multiagent Systems (AAMAS), pages 212–220, 2017.
   [Acceptance Rate : 24.9%].
- [17] Preference Elicitation for DCOPs. [%] Atena M. Tabakhi, Tiep Le, Ferdinando Fioretto, William Yeoh.
   International Conference on Principles and Practice of Constraint Programming (CP), pages 278–296, 2017. [Acceptance Rate : 43.0%].
- Proactive Dynamic Distributed Constraint Optimization Problems. [%]
   Khoi Hoang, Ferdinando Fioretto, Ping Hou, Makoto Yokoo, William Yeoh, Roie Zivan.
   International Conference on Autonomous Agents and Multiagent Systems (AAMAS), pages 597–605, 2016.
   [Acceptance Rate : 24.9%].
- [15] ER-DCOPs : A Framework for Distributed Constraint Optimization Problems With Uncertainty. [%] Tiep Le, Ferdinando Fioretto, William Yeoh, Enrico Pontelli, Tran Cao Son.
   International Conference on Autonomous Agents and Multiagent Systems (AAMAS), pages 606–614, 2016.
   [Acceptance Rate : 24.9%].
- [14] Multi-Variable Agent Decompositions for DCOPs. [%] Ferdinando Fioretto, William Yeoh, Enrico Pontelli.
   AAAI Conference on Artificial Intelligence (AAAI), pages 2480–2486, 2016. [Acceptance Rate : 25.7%].
- [13] A Dynamic Programming-Based MCMC Framework for Solving DCOPs with GPUs. [%] Ferdinando Fioretto, William Yeoh, Enrico Pontelli.

International Conference on Principles and Practice of Constraint Programming (CP), pages 813–831, 2016. [Acceptance Rate : 35.0%].

- Exploiting GPUs in Solving (Distributed) Constraint Optimization Problems with Dynamic Programming. [%]
   Ferdinando Fioretto, Tiep Le, Enrico Pontelli, William Yeoh, Tran Cao Son.
   International Conference on Principles and Practice of Constraint Programming (CP), pages 121–139, 2015.
   [Acceptance Rate : 48.7%].
- Large Neighborhood Search with Quality Guarantees for Distributed Constraint Optimization Problems. [%] Ferdinando Fioretto, Federico Campeotto, Agostino Dovier, Enrico Pontelli, William Yeoh.
   International Conference on Autonomous Agents and Multiagent Systems (AAMAS), pages 1835–1836, 2015.
   [Acceptance Rate : 46.0%].
- [10] Multi-Variable Agents Decomposition for DCOPs to Exploit Multi-Level Parallelism. [%]
   Ferdinando Fioretto, William Yeoh, Enrico Pontelli.
   International Conference on Autonomous Agents and Multiagent Systems (AAMAS), pages 1823–1824, 2015.
   [Acceptance Rate : 46.0%].
- [9] Exploiting the Structure of Distributed Constraint Optimization Problems. [S]
   Ferdinando Fioretto.
   International Conference on Autonomous Agents and Multiagent Systems (AAMAS), pages 2007–2008, 2015.
   [Acceptance Rate : Unknown].
- [8] Exploiting the Structure of Distributed Constraint Optimization Problems. [%] Ferdinando Fioretto.
   AAAI Conference on Artificial Intelligence (AAAI), pages 4233–4234, 2015. [Acceptance Rate : Unknown].
- [7] A GPU Implementation of Large Neighborhood Search for Solving Constraint Optimization Problems. [%]  $(\alpha - \beta)$  Federico Campeotto, Agostino Dovier, Ferdinando Fioretto, Enrico Pontelli. European Conference of Artificial Intelligence (ECAI), pages 189–194, 2014. [Acceptance Rate : 28.0%].
- [6] Improving DPOP with Branch Consistency for Solving Distributed Constraint Optimization Problems. [%] Ferdinando Fioretto, Tiep Le, William Yeoh, Enrico Pontelli, Tran Cao Son.
   International Conference on Principles and Practice of Constraint Programming (CP), pages 307–323, 2014.
   [Acceptance Rate : 49.8%].
- [5] Exploring the Use of GPUs in Constraint Solving. [%]
   (α-β) Federico Campeotto, Alessandro Dal Palù, Agostino Dovier, Ferdinando Fioretto, Enrico Pontelli.
   Practical Aspects of Declarative Languages (PADL), pages 152–167, 2014.
   [Acceptance Rate : 55.0%].
- GD-Gibbs : A GPU-based Sampling Algorithm for Solving Distributed Constraint Optimization Problems. [%] Ferdinando Fioretto, Federico Campeotto, Luca Da Rin Fioretto, William Yeoh, Enrico Pontelli. International Conference on Autonomous Agents and Multiagent Systems (AAMAS), pages 1339–1340, 2014. [Acceptance Rate : 46.0%].
- [3] Constraint Programming in Community-based Gene Regulatory Network Inference. [%] Ferdinando Fioretto, Enrico Pontelli.
- Computational Methods in System Biology (CMSB), pages 135–149, 2013.
   [Acceptance Rate : 55.0%].
   [Best Student Paper Award].
- [2] A Filtering Technique for Fragment Assembly-based Proteins Loop Modeling with Constraints. [ $\S$ ] ( $\alpha$ - $\beta$ ) Federico Campeotto, Alessandro Dal Palù, Agostino Dovier, Ferdinando Fioretto, Enrico Pontelli. International Conference on Principles and Practice of Constraint Programming (CP), pages 850–866, 2012. [Acceptance Rate : 36.0%].
- The role of secondary and tertiary structure prediction in determining the function of novel genes found in Xenopus Leavis. [%]
   Michael R. Best, Ferdinando Fioretto, Alessandro Dal Palù, Enrico Pontelli, Tran Son, TuShun R. Powers, Elba E. Serrano.

Neuroscience, 2011, (518.20/ZZ45). [Acceptance Rate : Unknown].

#### JOURNALS

- [14] Decision-Focused Learning : Foundations, State of the Art, Benchmark and Future Opportunities. [%] Jayanta Mandi, James Kotary<sup>a</sup>, Senne Berden, Maxime Mulamba, Victor Bucarey, Tias Guns, Ferdinando Fioretto. Journal of Artificial Intelligence Research (JAIR), (81), pages 1623–1701, 2024. [Impact Factor : 2.441].
- [13] Gradient-Enhanced Physics-Informed Neural Networks for Power Systems Operational Support. [%] Mostafa Mohammadian, Kyri Baker, Ferdinando Fioretto.
   Electric Power Systems Research (223), pages 109551, 2023.
   [Impact Factor : 3.3].
- [12] Proactive Dynamic Distributed Constraint Optimization Problems. [%] Khoi D. Hoang, Ferdinando Fioretto, Ping Hou, William Yeoh, Makoto Yokoo, Roie Zivan. Journal of Artificial Intelligence Research (JAIR), (73), pages 179-225, 2022. [Impact Factor : 2.441].
- Differential Privacy of Hierarchical Census Data : An Optimization Approach. [%] Ferdinando Fioretto, Pascal Van Hentenryck, Keyu Zhu. Artificial Intelligence Journal (AIJ), (296), pages 103475, 2021. [Impact Factor : 14.05].
- [10] Differentially Private Optimal Power Flow for Distribution Grids. [%] Vladimir Dvorkin, Ferdinando Fioretto, Pascal Van Hentenryck, Pierre Pinson, Jalal Kazempour. [Impact Factor : 6.5].
  - IEEE Transactions on Power Systems, 36(3), pages 2186–2196, 2021.
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- [9] Differential Privacy for Power Grid Obfuscation. [%]
   Ferdinando Fioretto, Terrence W.K. Mak, Pascal Van Hentenryck.
   IEEE Transactions on Smart Grids, 11(2), pages 1356–1366, 2020.
   [Impact Factor : 8.6].
- [8] Privacy-Preserving Power System Obfuscation : A Bilevel Optimization Approach. [%] Terrence W.K. Mak, Ferdinando Fioretto, Lyndon Shi<sup>a</sup>, Pascal Van Hentenryck. [Impact Factor : 6.5].
- IEEE Transactions on Power Systems, 35(2), pages 1627–1637, 2020.
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- [7] OptStream : Releasing Time Series Privately. [%]
   Ferdinando Fioretto, Pascal Van Hentenryck.
   [Impact Factor : 2.441].
- Journal of Artificial Intelligence Research (JAIR), (65) pages 423–456, 2019. [Invited to IJCAI 2020 journal track].
- [6] Distributed Multi-Agent Optimization for Smart Grids and Home Automation. [%] Ferdinando Fioretto, Agostino Dovier, Enrico Pontelli.
   [Impact Factor : 1.9].
- Intelligenza Artificiale (IA), 12 (2), pages : 67–87, 2019.
   [Best 2018 Thesis in Artificial Intelligence (AI\*IA)] (Accompanying paper.).
- [5] Distributed Constraint Optimization Problems and Applications : A Survey. [%] Ferdinando Fioretto, Enrico Pontelli, William Yeoh.
   Journal of Artificial Intelligence Research (JAIR), 61, pages 623–698, 2018.
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- [4] AI Buzzwords Explained : Distributed Constraint Optimization Problems. [%] Ferdinando Fioretto, William Yeoh.

Al Matters, 3 (4), pages 8–13, 2018.

- [3] Accelerating Exact and Approximate Inference for (Distributed) Discrete Optimization with GPUs. [%] Ferdinando Fioretto, Enrico Pontelli, William Yeoh, Rina Dechter. Constraints, 23 (1), pages 1–43, 2018.
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- [2] Constrained Community-based Gene Regulatory Network Inference. [%] Ferdinando Fioretto, Agostino Dovier, Enrico Pontelli.
   ACM Transactions on Modeling and Computer Simulation (TOMACS), 25 (2), pages 11:1–11:26, 2015. [Impact Factor : 1.38].
- [1] A Constraint Solver for Flexible Protein Models. [%]  $(\alpha - \beta)^2$  Federico Campeotto, Alessandro Dal Palù, Agostino Dovier, Ferdinando Fioretto, Enrico Pontelli. Journal of Artificial Intelligence Research (JAIR), 48, pages 953–1000, 2013. [Impact Factor : 2.441].

#### BOOK CHAPTERS AND EDITORIAL ARTICLES

- Editorial : Federated Distributed Learning and Analytics. [%]
   Raed Al Kontar, Tianbao Yang, Ferdinando Fioretto, and Farzad Yousefian.
   IISE Transactions, 2025.
- [6] Differential Privacy Overview and Fundamental Techniques. [%] Ferdinando Fioretto, Pascal Van Hentenryck, and Juba Ziani. DP Book, forthcoming.
- [5] Reports of the Workshops Held at the 2022 AAAI Conference on Artificial Intelligence. [%] Ferdinando Fioretto, et al..
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- [4] Reports of the Workshops Held at the 2021 AAAI Conference on Artificial Intelligence. [S]
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   Ferdinando Fioretto, et al..
   Al Magazine, 41(4) 2020.
- [2] A Realistic Dataset for the Smart Home Device Scheduling Problem for DCOPs. [%] William Kluegel<sup>4</sup>, Muhammad A. Iqbal<sup>4</sup>, Ferdinando Fioretto, William Yeoh, Enrico Pontelli.
- Lecture Notes in Computer Science (LCNS), LNCS, volume 10643 pages 125–142, Springer, 2017.
   Visionary Paper Award (AAMAS workshop series).
- Investigation of Learning Strategies for the SPOT Broker in Power TAC. [%]
   Moinul M.P. Chowdhury, Russell Y. Folk, Ferdinando Fioretto, Christopher Kiekintveld, William Yeoh. AgentMediated Electronic Commerce : Designing Trading Strategies and Mechanisms for Electronic Markets, volume 271 of Lecture Notes in Business Information Processing, pages 96–111, Springer, 2017.

#### PEER REVIEWED WORKSHOPS

- [32] Fairness Issues and Mitigations in (Differentially Private) Socio-demographic Data Processes. [%] Joonhyuk Ko<sup>4</sup>, Juba Ziani, Saswat Das<sup>4</sup>, Matt Williams, Ferdinando Fioretto.
- AAAI Workshop on Privacy Preserving Artificial Intelligence (PPAI) at AAAI, 2025.
   [Oral] (11% of the submitted papers.).
- [31] Saswat Das<sup>4</sup>, Marco Romanelli, Cuong Tran<sup>4</sup>, Zarreen Reza<sup>4</sup>, Bhavya Kailkhura, Ferdinando Fioretto. [%] Low-rank finetuning for LLMs : A fairness perspective.
  - AAAI CoLoRAI Workshop at AAAI, 2025.
     [Best paper award].
- [30] Multi-Agent Path Finding in Continuous Spaces with Projected Diffusion Models. [%]

<sup>2.</sup> Author list is order alphabetically.

Jinhao Liang<sup>4</sup>, Jacob Christopher<sup>4</sup>, Sven Koenig, **Ferdinando Fioretto**.

- Combining AI and OR/MS for Better Trustworthy Decision Making at AAAI, 2025.
  [Oral].
- [29] OPF-Net : Real-Time Stability Constrained AC Optimal Power Flow. [%]
   Vincenzo Di Vito<sup>4</sup>, Mostafa Mohammadian, Kyri Baker, Ferdinando Fioretto.
   AAAI Bridge on Explainable AI, Energy and Critical Infrastructure Systems at AAAI, 2025.
- [28] Physics-Aware Generative Diffusion Models for Micro-structure Material Design. [%] Jacob K. Christopher<sup>4</sup>, Stephen Baek, Ferdinando Fioretto.
  - AI 4 Material science NeurIPS, 2024.
     [Acceptance Rate : 39%].
     [Oral] (6% of the accepted papers.).
- [27] Speculative Diffusion Decoding : Accelerating Language Generation through Diffusion. [%] Jacob K. Christopher<sup>4</sup>, Michael Cardei<sup>4</sup>, Brian R Bartoldson, Bhavya Kailkhura, Ferdinando Fioretto. Efficient Natural Language and Speech Processing (ENLSP) – at NeurIPS, 2024. [Acceptance Rate : 29%].
- Physics-Aware Diffusion Models for Micro-structure Material Design. [%]
   Jacob K. Christopher<sup>4</sup>, Stephen Baek, Ferdinando Fioretto.
   ELLIS ML for Molecules and Materials in the Era of LLMs Workshop, 2024.
- [25] Constrained Synthesis with Projected Diffusion Models. [%]
   Jacob K. Christopher<sup>4</sup>, Stephen Baek, Ferdinando Fioretto.
   Machine Learning and the Physical Sciences Workshop at NeurIPS, 2024.
- [24] The Data Minimization Principle in Machine Learning. [%] Prakhar Ganesh, Cuong Tran<sup>4</sup>, Reza Shokri, Ferdinando Fioretto.
   Workshop on Regulatory ML – at NeurIPS, 2024.
   [Acceptance Rate : 30.0%].
- [23] Differentiable Approximations of Fair OWA Optimization. [%] My H. Dinh<sup>a</sup>, James Kotary<sup>a</sup>, Ferdinando Fioretto.
   Workshop on Differentiable Almost Everything – at ICML, 2024. [Acceptance Rate : 27%].
- The Data Minimization Principle in Machine Learning. [%] Ferdinando Fioretto.
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   [Acceptance Rate : 30.0%].
- [21] Privacy-Preserving Convex Optimization : When Differential Privacy Meets Stochastic Programming. [%] Vladimir Dvorkin, Ferdinando Fioretto, Pascal Van Hentenryck, Pierre Pinson, Jalal Kazempour. Workshop on Climate Change AI – at NeurIPS, 2023.
- [20] A Fairness Analysis on Private Aggregation of Teacher Ensembles. [%] Cuong Tran<sup>4</sup>, My H. Dinh<sup>4</sup>, Ferdinando Fioretto.
  - AAAI Workshop on Privacy Preserving Artificial Intelligence (PPAI)-at AAAI, 2022.
     Spotlight (15% of the accepted papers).
- [19] Decision Making with Differential Privacy under the Fairness Lens. [%]
   Cuong Tran<sup>®</sup>, Ferdinando Fioretto.
   Theory and Practice of Differential Privacy (TPDP) at ICML, 2021.
- [18] A Privacy-Preserving and Accountable Multi-agent Learning Framework. [S] Anudit Nagar<sup>4</sup>, Cuong Tran<sup>4</sup>, Ferdinando Fioretto.
   International Workshop on Learning and Optimization in Multi-Agent Systems (OPTLearnMAS)-at AAMAS, 2021.
- [17] Differentially Private and Fair Deep Learning: A Lagrangian Dual Approach. [%]
   Cuong Tran<sup>a</sup>, Ferdinando Fioretto, Pascal Van Hentenryck.
   AAAI Workshop on Privacy Preserving Artificial Intelligence (PPAI) at AAAI, 2021.
- [16] Lagrangian Duality for Constrained Deep Learning. [%]

Ferdinando Fioretto, Cuong Tran<sup>≜</sup>, Pascal Van Hentenryck. INFORMS, 2020.

- [15] Differential Privacy For Stackelberg Games : An Application To Gas And Electricity Markets. [%] Lesia Mitridati, Ferdinando Fioretto, Pascal Van Hentenryck. INFORMS, 2020.
- A Large Neighboring Search Schema for Multi-Agent Optimization. [%]
   Khoi Hoang, Ferdinando Fioretto, William Yeoh, Enrico Pontelli, Roie Zivan.
   International Workshop on Optimization in Multi-Agent Systems (OPTMAS at AAMAS, 2019.
- Solving Multiagent Constraint Optimization Problems on the Constraint Composite Graph. [%]
   Ferdinando Fioretto, Hong Xu, Sven Koenig, TK Satish Kumar.
   International Workshop on Optimisation in Multi-Agent Systems (OptMAS)-at AAMAS, 2018.
- [12] A Realistic Dataset for the Smart Home Device Scheduling Problem for DCOPs. [%]
   William Kluegel, Muhammad Aamir Iqbal, Ferdinando Fioretto, William Yeoh, Enrico Pontelli.
   International Workshop on Optimisation in Multi-Agent Systems (OPTMAS) at AAMAS, 2017.
- [11] A Multiagent System Approach to Scheduling Devices in Smart Homes. [%]
   Ferdinando Fioretto, William Yeoh, Enrico Pontelli.
   Workshop on Al for Smart Grids and Smart Buildings (AISGSB) at AAAI, 2017.
- [10] A Preliminary Study on Preference Elicitation in DCOPs for Scheduling Devices in Smart Buildings. [%]
   Atena M. Tabakhi, Ferdinando Fioretto, William Yeoh.
   10th Workshop on Advances in Preference Handling (MPREF) at IJCAI, 2016.
- Investigation of Learning Strategies for the SPOT Broker in Power TAC. [%]
   Porag Chowdhury, Russell Y. Folk, Ferdinando Fioretto, Christopher Kiekintveld, William Yeoh.
   International Workshop on Agent Mediated Electronic Commerce and Trading Agents Design and Analysis (AMEC/TADA) at AAMAS, 2016.
- [8] Proactive Dynamic DCOPs. [%]
   Khoi Hoang, Ferdinando Fioretto, Ping Hou, Makoto Yokoo, William Yeoh, Roie Zivan.
   Workshop on AI for Smart Grids and Smart Buildings (AISGSB) at AAAI, 2016.
- [7] Large Neighborhood Search with Quality Guarantees for Distributed Constraint Optimization Problems. [%]
   Ferdinando Fioretto, Federico Campeotto, Agostino Dovier, Enrico Pontelli, William Yeoh.
   In International Workshop on Optimization in Multi-Agent Systems (OptMAS) at AAMAS, 2015.
- [6] Improving DPOP with Branch Consistency for Solving Distributed Constraint Optimization Problems. [%]
   Ferdinando Fioretto, Tiep Le, William Yeoh, Enrico Pontelli, Tran Cao Son.
   In International Workshop on Optimization in Multi-Agent Systems (OptMAS) at AAMAS, 2015.
- [5] Experimenting with FIASCO for protein structure prediction. [%]
   [α/β] Federico Campeotto, Alessandro Dal Palù, Agostino Dovier, Ferdinando Fioretto, Enrico Pontelli.
   Workshop on Constraint Based Methods for Bioinformatics (WCB) at CP, 2014.
- [4] Towards a complete constraint solver on GPU. [%]
   [α/β] Federico Campeotto, Alessandro Dal Palù, Agostino Dovier, Ferdinando Fioretto, Enrico Pontelli.
   In Workshop on Parallel Methods for Search & Optimization (ParSearchOpt) at ECAI, 2014.
- [3] Community-based Gene Regulatory Network Inference via Constraint Programming. [S]
   Ferdinando Fioretto, Enrico Pontelli.
   Workshop on Constraint Based Methods for Bioinformatics (WCB) at CP, 2013.
- [2] Protein Loop Modelling via Constraints and Fragment Assembly. [%]
   [α/β] Federico Campeotto, Alessandro Dal Palù, Agostino Dovier, Ferdinando Fioretto, Enrico Pontelli.
   Workshop on Constraint Based Methods for Bioinformatics (WCB) at CP, 2012.
- [1] Introducing FIASCO : Fragment-based Interactive Assembly for protein Structure prediction with COnstraints. [%] [α/β] Michael R. Best, Kabi Bhattarai, Federico Campeotto, Alessandro Dal Palù, Hung Dang, Agostino Dovier, Fer-

 $[\alpha/\beta]$  Michael R. Best, Kabi Bhattarai, Federico Campeotto, Alessandro Dal Palu, Hung Dang, Agostino Dovier, Ferdinando Fioretto, Federico Fogolari, Tiep Le, Enrico Pontelli. Workshop on Constraint Based Methods for Bioinformatics (WCB) – at CP, 2011.

#### PRE-PRINTS AND IN-PRESS

- [13] A Method for Learning to Solve Parametric Bilevel Optimization with Coupling Constraints. [%] James Kotary, Himanshu Sharma, Ethan King, Draguna L Vrabie, Ferdinando Fioretto, Jan Drgona. NeurIPS (under review), 2025.
- [12] Disclosure Audits for LLM Agents. [%] Saswat Das<sup>4</sup>, Jameson Sandler<sup>4</sup>, Ferdinando Fioretto. NeurIPS (under review), 2025.
- [11] Disparate Speed Up Rates In Speculative Decoding. [S] Jameson Sandler, Ahmet Ustun, Marco Romanelli, Sara Hooker, Ferdinando Fioretto. NeurIPS (under review), 2025.
- [10] Optimal Allocation of Privacy Budget on Hierarchical Data Release. [%] Joonhyuk Ko<sup>4</sup>, Juba Ziani, and Ferdinando Fioretto. NeurIPS (under review), 2025.
- [9] Constrained Discrete Diffusion. [%] Michael Cardei<sup>a</sup>, Jacob K Christopher<sup>a</sup>, Thomas Hartvigsen, Bhavya Kailkhura, and Ferdinando Fioretto. NeurIPS (under review), 2025.
- [8] Training-Free Constrained Generation With Stable Diffusion Models. [%] Stefano Zampini<sup>®</sup>, Jacob K Christopher<sup>®</sup>, Luca Oneto, Davide Anguita, Ferdinando Fioretto. NeurIPS (under review), 2025.
- [7] Gen-DFL : Decision-Focused Generative Learning for Robust Decision Making. [%] Prince Zizhuang Wang, Jinhao Liang<sup>4</sup>, Shuyi Chen, Ferdinando Fioretto, Shixiang Zhu. NeurIPS (under review), 2025.
- [6] Global-Decision-Focused Neural ODEs for Proactive Grid Resilience Management. [%] Shuyi Chen, Ferdinando Fioretto, Feng Qiu, Shixiang Zhu.
   IEEE Transactions on Smart Grids (under review), 2025.
- [5] OPF-Net : Real-Time Stability Constrained AC Optimal Power Flow. [%] Vincenzo Di Vito<sup>4</sup>, Mostafa Mohammadian, Kyri Baker, Ferdinando Fioretto. IEEE Transactions on Power Systems (revision), 2025.
- [4] End-to-End Optimization and Learning of Fair Court Schedules. [%] My H. Dinh<sup>♣</sup>, James Kotary<sup>♣</sup>, Lauryn P. Gouldin, William Yeoh, Ferdinando Fioretto. FAccT (under review), 2025.
- [3] Low-rank finetuning for LLMs: A fairness perspective. [%] Saswat Das<sup>4</sup>, Marco Romanelli, Cuong Tran<sup>4</sup>, Zarreen Reza<sup>4</sup>, Bhavya Kailkhura, Ferdinando Fioretto. FAccT (under review), 2025.
- Learning Constrained Optimization with Deep Augmented Lagrangian Methods. [%] James Kotary<sup>4</sup>, Ferdinando Fioretto.
   CoRR abs/2403.03454, 2024.
- Analyzing and Enhancing the Backward-Pass Convergence of Unrolled Optimization. [%] James Kotary<sup>®</sup>, Jacob K. Christopher<sup>®</sup>, My H Dinh<sup>®</sup>, and Ferdinando Fioretto.
   INFORMS journal of computing (under review), 2024.

#### ARCHIVED AND EXTENDED VERSIONS OF PUBLISHED PAPERS

- Context-Aware Differential Privacy for Language Modeling. [%]
   My H. Dinh<sup>a</sup>, Ferdinando Fioretto.
   CoRR abs/2301.12288, 2023.
- Deadwooding: Robust Global Pruning for Deep Neural Networks. [%]
   Sawinder Kaur, Ferdinando Fioretto, Asif Salekin.
   CoRR abs/2202.05226, 2022.
- [10] Towards Understanding the Unreasonable Effectiveness of Learning AC-OPF Solutions. [%] My H. Dinh<sup>a</sup>, Ferdinando Fioretto, Mostafa Mohammadian, Kyri Baker.

CoRR abs/2111.11168, 2021.

- [9] Differentially Private Deep Learning under the Fairness Lens. [%] Cuong Tran<sup>®</sup>, My H. Dinh<sup>®</sup>, Ferdinando Fioretto.
   CoRR abs/2106.02674, 2021 (extended NeurIPS-21 version).
- [8] A Privacy-Preserving and Trustable Multi-agent Learning Framework. [%] Anudit Nagar<sup>4</sup>, Cuong Tran<sup>4</sup>, Ferdinando Fioretto. CoRR abs/2106.01242, 2021. (extended AAMAS-21 version).
- [7] End-to-End Constrained Optimization Learning: A Survey. [%] James Kotary<sup>®</sup>, Ferdinando Fioretto, Pascal Van Hentenryck, Bryan Wilder. CoRR abs/2103.16378, 2021. (extended IJCAI-21 version).
- [6] Load Embeddings for Scalable AC-OPF Learning. [%] Terrence W.K. Mak, Ferdinando Fioretto, Pascal Van Hentenryck. CoRR abs/2101.03973, 2021.
- Bias and Variance of Post-processing in Differential Privacy. [%] Keyu Zhu, Pascal Van Hentenryck, Ferdinando Fioretto.
   CoRR abs/2010.04327, 2020 (extended AAAI-21 version).
- [4] High-Fidelity Machine Learning Approximations of Large-Scale Optimal Power Flow. [%] Minas Chatzos, Ferdinando Fioretto, Terrence W.K. Mak, Pascal Van Hentenryck. CoRR abs/2006.16356, 2020.
- [3] Differentially Private Convex Optimization with Feasibility Guarantees. [%] Vladimir Dvorkin, Ferdinando Fioretto, Pascal Van Hentenryck, Jalal Kazempour, Pierre Pinson. CoRR abs/2006.12338, 2020.
- Predicting AC Optimal Power Flows : Combining Deep Learning and Lagrangian Dual Methods. [%] Ferdinando Fioretto, Terrence W.K. Mak, Pascal Van Hentenryck. CoRR abs/1909.10461, 2019 (extended AAAI-20 version).
- Privacy-Preserving Obfuscation of Critical Infrastructure Networks. [%] Ferdinando Fioretto, Terrence W. K. Mak, Pascal Van Hentenryck. CoRR abs/1905.09778, 2019 (extended IJCAI-19 version).

### Teaching

Responsible AI (CS 7000), University of Virginia

•				
Spring 2025	Course Evaluation : 4.67 (class), 4.24 (instructor) / 5.00			
Spring 2024	Course Evaluation : 4.8 (class), 4.75 (instructor) / 5.00			
Artificial Intellig	Artificial Intelligence (CS 4710), University of Virginia			
Fall 2023	Course Evaluation : 4.33 (class), 4.50 (instructor) / 5.00			
Fall 2024	Course Evaluation : 4.21 (class), 3.98 (instructor) / 5.00			
Security and Privacy of Machine Learning (CS 700), Syracuse University				
Spring 2020	COURSE EVALUATION : 4.55/5.00 (median 5.00)			
Spring 2021	COURSE EVALUATION : 4.46/5.00 (median 5.00)			
Spring 2022	Course Evaluation : 4.93/5.00 (median 5.00)			
Introduction to Artificial Intelligence (CIS 467), Syracuse University				
Fall 2020	Course Evaluation : 4.56/5.00 (median 5.00)			
Fall 2021	Course Evaluation : 4.48/5.00 (median 5.00)			
Fall 2022	Course Evaluation : 4.45/5.00 (median 5.00)			
Fall 2023	COURSE EVALUATION: 4.15/5.00 (median 5.00)			

Discrete Mathematics (CS 375), Syracuse University

# Mentoring

Current Students	
> Vincenzo Di Vito (PhD, UVA CS)	Fall 2022
RESEARCH : Physics Informed Machine Learning.	eiested defense (Fell 2020)
PHD MILESTONES : qualifying exam (Spring 2024); proposal defense (Spring 2025, expected); pro	
> Saswat Das (PhD, UVA CS)	Fall 2023
RESEARCH : Responsible AI, Differential Privacy. Awards : • [Best paper award at AAAI CoLoRAI Workshop, 2025] • [Oral at AAAI-25]	
PHD MILESTONES : qualifying exam (Spring 2025, expected); proposal defense (Spring 2026, ex	vpected): projected defense
(Spring 2027).	specied), projecied delense
<ul> <li>Jacob K. Christopher (PhD, UVA CS)</li> </ul>	Fall 2023
RESEARCH : Generative AI for Science, Safety.	10112020
AWARDS : • [NeuS-25 Best paper award] • [Oral at NAACL-25] • [Best paper award at UVA LLM	1 workshop, 2024] • [Oral at
NeurIPS-24 ENLSP workshops] • [Oral at NeurIPS-24 AI4Mat workshops]	
PHD MILESTONES : qualifying exam (Fall 2024); proposal defense (Fall 2025, expected); projected	d defense (Spring 2027).
> Jinhao Liang (PhD, UVA CS)	Fall 2024
RESEARCH : Generative AI, Differentiable Optimization.	
AWARDS: • [Oral at AAAI Bridge on ML for OR program, 2025] • [NeuS-25 Best paper award] • [C	)ral at AAAI MAPF workshop,
2025]	
PHD MILESTONES : qualifying exam (Spring 2026)	
> Michael Cardei (PhD, UVA CS)	Fall 2024
RESEARCH : LLMs, Generative AI, Safety.	
Awards : • [NSF GRFP 2025 honorable mention] • [NeuS-25 Best paper award] • [Oral at NAA	CL-25] • [Best paper at LLM
workshop, UVA]	
PHD MILESTONES : qualifying exam (Spring 2026)	
> Huu Binh Ta (PhD, UVA CS)	Fall 2025
RESEARCH : Generative AI, AI for Science.	
> Zehua Wang (PhD, UVA CS)	Fall 2025
Researcн : Generative AI, Large Language Models, Privacy.	
> Jameson Sandler (PhD, UVA CS)	Fall 2025
RESEARCH : Fairness, Generative AI, and Optimization.	
> Peggy Cui, (MS, UVA CS)	Spring 2024
<ul> <li>Joonhyuk Ko (BS, UVA CS)</li> </ul>	Fall 2023
Awards : • [CRA outstanding undergraduate research honorable mention] • [Oral at AAAI-	
Research Award, 2025]	
> Jameson Sandler (BS, UVA CS)	Fall 2024
Awards : • [Highest distinction in CS, UVA]	
> Yili Bai (BS, UVA CS)	Spring 2025
<ul> <li>Natalia Wunder (BS, UVA CS)</li> </ul>	Spring 2025
<ul> <li>Connor Lewis (BS, UVA CS)</li> </ul>	Spring 2025 Spring 2025
<ul> <li>Lauren LaPorta (BS, UVA CS)</li> </ul>	Spring 2025 Spring 2025
	Spring 2025
> Lea Demelius (Visiting PhD student, Technical University of Graz)	Spring 2025
Graduated Students	
> My Dinh (PhD, UVA CS)	Spring 2021 – Spring 2025
RESEARCH : Deep Learning, Optimization, Fairness.	
DISSERTATION TITLE : Bridging Machine Learning and Optimization : Learning Fair and Scalable	Problem Solving
Next position : TBA	

> James Kotary, PhD (UVA, CS)	Fall 2020 – Fall 2024
RESEARCH : Integration of Deep Learning and Optimization. DISSERTATION TITLE : Integrating Constrained Optimization with Machine Learning to Enhan NEXT POSITION : Research Scientist, Pacific Northwest National Laboratory.	nce Data-Driven Decision Making
<ul> <li>Cuong Tran, PhD (Syracuse University, CISE)</li> <li>RESEARCH : Differential Privacy and Fairness.</li> <li>Awards :          <ul> <li>[Caspar Bowden PET Award (2022)]</li> <li>[Best Paper Award Nomination at Neurl</li> </ul> </li> </ul>	Spring 2020 – Spring 2023 [ <b>PS-22</b> ]
DISSERTATION TITLE : The Interplay between Privacy and Fairness in Learning and Decision-r NEXT POSITION : Research Scientist, Amazon.	
Jacob Kennedy Christopher, MS (SYRACUSE UNIVERSITY) RESEARCH : Differentiable Optimiztion. NEXT POSITION : PhD student at University of Virginia.	Spring 2023
<ul> <li>Yehya Farhat, MS (SYRACUSE UNIVERSITY)</li> <li>DISSERTATION TITLE : Surrogate ML models for optimization.</li> <li>NEXT POSITION : PhD student at <i>Rice University</i>.</li> </ul>	Fall 2022
Past Students and Visitors	
> Stefano Zampini, (VISITING STUDENT, PhD at University of Genova)	Summer 2024
<ul> <li>Cuong Tran (Postdoc)</li> <li>RESEARCH : Data Minimization, Fairness in Large Language Models.</li> </ul>	Sep 2023 – Mar 2024
<ul> <li>Razan Tajeddine, (VISITING STUDENT, Postdoc at U of Helsinki)</li> <li>RESEARCH : Differential Privacy and Fairness.</li> </ul>	Sep 2023 – Mar 2024
St John Grimbly, (VISITING STUDENT, MS at UniSA) NEXT POSITION : PhD student at University of South Africa.	Spring 2023
<ul> <li>Jayanta Mandi, (VISITING STUDENT RESEARCHER, PhD at KU Leuven)</li> <li>RESEARCH : Decision Focused Learning.</li> </ul>	Jun 2022 – Sep 2022
Rakshit Naidu, MS at CMU (INTERN) RESEARCH : Privacy and Fairness in ML. NEXT POSITION : PhD student at Georgia Tech	Summer 2022

#### BS and High-School Students

Aiden Want (HS, Academy of Science High School, Summer 2025), Shujun Xia (BS, City University of Hong Kong, Summer 2024), Zarreen Reza (BS, OpenMined, Spring 2024), Eric Nguyen (BS, University of Virginia, Fall 2023), Catherine Smolka (HS, Deep Run High School, VA, 2023-2024), Pranav Putta (BS, GaTech, Summer 2023) [NSF REU], Winston Tsui (BS, SU Summer 2023), Zhongquan Cheng (BS SU, Summer 2023), Adya Parida (BS SU, Fall 2022) [NSF REU], Deniz Gursoy (HS, Fayetteville High School, Summer 2022), Saswat Das (BS, ITS, Summer 2022), Utsav Pathak (BS, Alliance University, Bengaluru, Summer 2022), Daiwei Shen (BS, Northwestern, Summer 2022), Sunisth Kumar (BS, Bennett University, Summer 2022), Kyle Beiter (BS, SU, Summer 2021) [NSF REU], Dayong Gu (BS, SU, Summer 2021), Guoliang Chen (BS, SU, Summer 2021), Pradyumn Yadav (BS, SU, Summer 2021), Anudit Nagar (BS, SU, Summer 2020), Zhiyan Yao (BS, SU, Summer 2020), Zifei Lu (BS, SU, Summer 2020), Thomas Montfort (BS, SU, Summer 2020), Cong Liu (BS, SU, Summer 2020), Pratik Paranjape, (BS, SU, Summer 2020), Pavan Kumar Vaddineni (BS, SU, Spring 2020), William Kluegel, (BS, NMSU, 2016 – 2018), Lyndon Shi (BS, UMich, 2018), Jiayu Chen (BS, UMich, 2018), Eric Frechette (BS, NMSU, 2016).

#### PhD Dissertation Committee

> Chen Gong, (University of Virginia)	2025
> Galen Harrison, (University of Virginia)	2025
> Felipe Toledo, (University of Virginia)	2025
> Luca Giuliani, (University of Bologna)	2024
> Eleonora Misino, (University of Bologna)	2024
> Guangtao Zheng, (University of Virginia)	2024
> Dung Nguyen, (University of Virginia)	2023
> Elena Long, (University of Virginia)	2023
> Khang Tran, (New Jersey Institute of Technology)	2023
> Keyu Zhu, (Georgia Institute of Technology)	2023
> Adrià Fenoy Barcel, (University of Verona)	2023

> > >	Jeroen Fransman, (Delft University of Technology) Pegah Hozhabrierdi, (Syracuse University) Carlos Pinzon, (École Polytechnique) Baocheng Geng, (Syracuse University) Pranay Sharma, (Syracuse University)	2022 2022 2022 2021 2021
Re	esearch Grants and Gifts	
	Summary : <u>Total External</u> : \$3,130,903 (\$2,162,903 as PI) <u>Total Internal</u> : \$236,000	
>	DARPA, DARPA Disruptive Idea Award (\$100,000) Role : PI	6/25
>	<b>4-VA</b> , 4-VA Collaborative Research Program (\$30,000) <b>Project title :</b> <i>Towards Fair Decision Systems : Augmenting LLMs with Causal Graph Discovery</i> <b>Role :</b> PI (with Ziwei Zhu (GMU) as coPI)	6/25
>	<b>4-VA</b> , 4-VA Collaborative Research Program (\$5,000) <b>Project title :</b> <i>A Decomposition Architecture for Solving Constrained Combinatorial Optimization Problems</i> <b>Role :</b> co-PI (with Esra Toy (Virginia Tech) as lead PI)	6/25
>	NVIDIA, NVIDIA Academic Research Award (GPUs usage) (150,000 hours) Role : PI	5/25
>	GOOGLE, Google Cloud Academic Research Award (\$10,000 in compute credits) Role : Pl	4/25
>	LACROSS INSTITUTE, 2025 Fellowship in AI Research (\$100,000 [entire amount for the PI]) Role : PI (with collaborator Max Biggs)	06/25-05/27
>	Сонеке For AI, Cohere For AI Research Grant (LLM credits) (\$20,000) Role : PI	12/24
>	UNIVERSITY OF VIRGINIA (RESEARCH INNOVATION AWARD) (\$60,000) Project title : Understanding and Mitigating Privacy Leakage Risks for Large Language Model Applications Role : PI (with David Evans as coPI)	8/24-7/25
>	NATIONAL SCIENCE FOUNDATION (CISE - RI) (\$600,000 - UVA portion : \$350,000) Project title : Collaborative Research : End-to-end Learning of Fair and Explainable Schedules for Court Systems Role : Lead PI (with L. Gouldin (SYR) as coPI and W. Yeoh WASHU as collaborative PI)	08/23-07/26
>	NATIONAL SCIENCE FOUNDATION (EECS - EPCN) (\$520,000 - UVA porition : \$260,000) Project title : Collaborative Research : Physics Informed Real-time Optimal Power Flow Role : PI (with Kyri Baker (UC BOULDER) as collaborative PI)	08/23-07/26
>	AMAZON RESEARCH AWARDS AWS AI (\$55,000) Project title : Toward Understanding the Unintended Disparate Impacts of Private Machine Learning Systems Role : PI	01/23
>	NATIONAL SCIENCE FOUNDATION (CAREER, CISE - RI) (\$515,403) Project title : CAREER : End-to-end Constrained Optimization Learning Role : PI	03/22-02/27
>	GOOGLE RESEARCH SCHOLAR AWARD (\$60,000) Project title : On the Equity of Differentially Private Decision Processes Role : Pl	06/22
>	NATIONAL SCIENCE FOUNDATION (CISE - SATC) (\$500,000 - UVA portion : \$281,000) Project title : Collaborative Research : SaTC : Core : Small : Privacy and Fairness in Critical Decision Making Role : Lead PI (with P. Van Hentenryck (GEORGIA ТЕСН) as collaborative PI)	10/21-09/25
>	NATIONAL SCIENCE FOUNDATION (CISE - RI) (\$500,000 - UVA portion : \$266,000) Project title : Collaborative Research : RI : Small : Deep Constrained Learning for Power Systems Role : PI (with P. Van Hentenryck (GEORGIA ТЕСН) as collaborative PI)	10/20-09/24
>	CUSE PROGRAM (\$21,000) Project title : On the Potential Perils of Fairness Algorithms in Decision Making and Learning Tasks Role : PI (with S. Soundarajan (SYR) as coPI)	07/21-06/23

#### **TRAVEL AND SERVICE GRANTS** > Support for Scholarship awards to attend the 2025 AAAI Privacy Preserving AI workshop 03/25 **Sponsorship from :** *Deloitte* (\$3,000); *Google* (\$5,000); *Apple* (\$3,000); *OpenDP* (\$500) Role: PI > National Science Foundation (\$50,000) 05/24 Project title : Conference : Artificial Intelligence Summer School for Computer Science and Operations Research Education Role: coPI (with Lavanya Marla (UIUC) as PI > Artificial Intelligence Journal (\$4,000) 03/24 Project title : Student Support AI-SCORE 2024 Role: PI (with Lavanya Marla) > Artificial Intelligence Journal (\$15,000) 01/23 Project title : Student Support for AAMAS 2023 Role: PI (with Ana L. C. Bazzan) > National Science Foundation (\$25,000) 05/23 Project title: Travel: Travel: Doctoral Mentoring Consortium at the 22nd International Conference on Autonomous Agents and Multiagent Systems Role: PI > Support for Scholarship awards to attend the 2024 AAAI Privacy Preserving AI workshop 03/24 **Sponsorship from :** *Google* (\$5,000); *NJIT* (\$2,500); *OpenDP* (\$500) Role: PI > Support for Scholarship awards to attend the 2023 AAAI Privacy Preserving AI workshop 03/23 **Sponsorship from :** *Google* (\$2,500) Role: PI

## Tutorials, Selected Invited Talks and Media interviews

> Invited talk : Generative AI for Science. TED-X Chantilly High School	Jun 2025
> Google talk : Conversational audits for Privacy Exploits in LLM Agents.	May 2025
Google Research	
> Panelist : Combining AI and ORMS for better trustworthy Decision Making. AAAI 2025 Bridge Program	Mar 2025
> Invited participant and group lead : On the Safety of Foundations Models for Autonomous BioLabs. DOE Workshop on Envisioning Frontiers in AI and Computing for Biological Research	Feb 2025
> Keynote talk : Privacy and Fairness issues in Large Language Models.	Nov 2024
S-HPC Workshop, at Supercomputing 24	
> Invited talk : Unfairness in Constrained Machine Learning. Ohio State University, Department of Computer Science	Nov 2024
Invited talk : Constraining diffusion models for scientific applications. UVA LLM Workshop	Oct 2024
<ul> <li>Invited talk : Privacy and Fairness in Resource Allocations.</li> </ul>	Oct 2024
2024 Federal Committee on Statistical Methodology (FCSM) Research and Policy Conference	0002021
<ul> <li>Invited talk : Constrained Diffusion for Science and Engineering.</li> </ul>	Oct 2024
Oklahoma State University, School of Industrial Engineering and Management	0 00 202
> Invited talk : Constrained Diffusion for Science and Engineering.	Sep 2024
University of Virginia, Department of Systems and Information Engineering	
Podcast invited speaker : NSI Cyber and Tech Center : "Unleashing Innovation : Navigating Game Chang – episode on open source large language model. National Security Institute at George Mason University's Antonin Scalia Law School	ing Technologies" Jul 2024
<ul> <li>Invited participant and group lead : US-UK Scientific Forum on Science in the Age of AI.</li> <li>National Academy of Sciences</li> </ul>	Jun 2024
<ul> <li>Panelist : Al and OR summer school.</li> <li>Al-SCORE</li> </ul>	May 2024
<ul> <li>Invited talk : Fairness in ML : The curious case of computational shortcuts and hardware choices.</li> <li>BuzzRobot</li> </ul>	May, 2024

>	Invited talk : The Principle of Data Minimization in Machine Learning. Google Research Seminars	Apr, 2024
>	Media cover : Building fairness into AI is crucial – and hard to get right.	Mar 2024
>	Invited talk : Responsible AI in Decision Making Processes. Amazon Research Seminars	Feb 2024
>	Keynote talk : Privacy and Fairness in Societal Systems.	Nov 2023
>	Workshop on the Tradeoffs in Ethical AI, INRIA, France Invited talk : Responsible AI : Privacy and Fairness in Decision Making and Learning Tasks.	Nov 2023
>	TOC FOR FAIRNESS, Simons Collaboration on the Theory of Algorithmic Fairness Panelist : Navigating the Frontiers of Artificial Intelligence.	Oct 2023
>	The Center for Politics, University of Virginia Invited talk : Optimization and Learning for Science and Engineering.	Oct 2023
>	Conference on Complex Systems 2023 Invited talk : ML for Optimization and Optimization for ML.	Sep 2023
>	Al/ML Seminar Series, University of Virginia Keynote talk : The Unintended Societal Effects of Privacy in Decision and Learning Tasks.	Aug 2023
>	IJCAI-2023, International Workshop on Mining Actionable Insights from Social Networks Invited talk : End-to-end Constrained Optimization Learning.	Jul 2023
>	AC Summer School : Machine Learning for Constraint Programming Invited talk : Differential Privacy for Power Systems.	Jun 2023
>	DTU PES Summer School Invited talk : Optimization Proxies and Differentiable Optimization for Decision Making.	Jun 2023
>	MARS Seminar, Pacific Northwest National Laboratory (PNNL) Invited talk : Constrained-aware Machine Learning in Energy Systems.	Jun 2023
>	<i>IEEE Power and Energy Society webinar series</i> <b>Invited talk</b> : Responsible AI : Privacy and Fairness in Decision and Learning Tasks.	Apr 2023
	UC San Diego	
	Panelist : ChatGPT : Charms and Challenges. Syracuse University	Apr 2023
>	Invited talk : Responsible AI : Privacy and Fairness in Decision and Learning Tasks. University of Virginia	Mar 2023
>	Invited talk : Constrained-Aware Machine Learning. Washington University in St. Louis	Feb 2023
>	Invited talk : Differential Privacy for Power Systems. Los Alamos National Lab's 5th Grid Science Winter School and Conference	Jan 2023
>	Panelist : Algorithmic Fairness and its Intersections.  C Thirty-sixth Conference on Neural Information Processing Systems (NeurIPS)	Dec 2022
>	Tutorial : End-to-end constrained optimization learning.	Dec 2022
>	Media cover : How network pruning can skew deep learning models.	Nov 2022
>	Invited talk : Disparate Impacts in Privacy-preserving Machine Learning. Washington University in St. Louis	Nov 2022
>	<b>Tutorial</b> : Decision Focused Learning. Dagstuhl seminar on Data-Driven Combinatorial Optimisation	Oct 2022
>	Media interview : Privacy and Fairness in Al.	Jul/Sep 2022
>	Media interview : Google Scholar Research Award.	Jun 2022
>	<b>Tutorial</b> : Impacts of Data Privacy and Equity on Public Policy. CACM Conference on Fairness, Accountability, and Transparency (FAccT)	Jun 2022

>	Panelist : Fostering the Use of AI for Power System Transformation.	Jun 2022
>	Media interview : NSF CAREER Award.  Syracuse Media Report	Jun 2022
>	Invited talk : End-to-end constrained deep learning optimization. Hall of Science (Kantar.com)	Mar 2022
>	Panelist : AAAI-22 DC - Career Panel.  36th AAAI Conference on Artificial Intelligence (AAAI)	Feb 2022
>	Invited talk : Privacy-preserving ML and decisions-making : uses and unintended disparate effects.  PriSec-ML (virtual seminars)	Feb 2022
>	Media interview : Al for Climate Change.	Dec 2021
>	Popular Media Report : ISSNAF Young Investigator Award.	Nov 2021
>	Invited talk : Deep Constraint Learning : Applications and Privacy Considerations.  Italian Scientists & Scholars in North America Foundation	Nov 2021
>	Plenary Keynote talk : Constraint-based Differential Privacy.	Oct 2021
>	<b>Popular Media interview</b> : Deep Learning for Engineering Applications. C Blum News	Nov 2021
>	Invited talk : Privacy-Preserving Machine Learning : Uses and Unintended Disparate Effect. ASPI Seminar (Syracuse University)	Sep 2021
>	Invited talk : Differential Privacy and Machine Learning. SUPA ECS workshop for High School Teachers	May 2021
>	Invited talk : Deep Constraint Learning for Critical Engineering Systems.  Italian Scientists & Scholars in North America Foundation	Nov 2020
>	<b>Tutorial</b> : Tutorial on Multiagent Optimization. <b>A</b> AAI Conference on Artificial Intelligence (AAAI 2020)	Feb 2020
	Media cover : Multiagent Systems.         Image: Cover Systems in the system is a system is a system in the system in the system is a system in the system is a system in the system in the system in the system in the system is a system in the system in the system is a system in the system in t	Feb 2020
>	Invited talk : Privacy-Preserving Artificial Intelligence. University of Parma (CS Dept)	Jun 2019
	<b>Tutorial</b> : Tutorial on Multiagent Optimization for IoT Applications. International Conference on Autonomous Agents and Multiagent Systems (AAMAS 2019)	May 2019
>	Invited talk : Differential Privacy for AI Applications University of Southern California - Information Sciences Institute. Michigan State University.	Jan 2019 Feb 2019
>	Invited talk : Privacy Preserving Artificial Intelligence	
	Syracuse University. Drexel University.	Feb 2019 Feb 2019
	University of Arkansas.	Feb 2019
	Colorado State University.	Mar 2019
>	University of Connecticut. <b>Tutorial</b> : Tutorial on Constrained Multi-agent Optimization.	Mar 2019 Feb 2018
ĺ	AAAI Conference on Artificial Intelligence (AAAI 2018)	1002010
>	Plenary Keynote talk : Distributed Constraint Optimization for Smart Energy Networks. Italian Conference on Artificial Intelligence (AI*IA 2017)	Nov 2017
>	Invited talk : Distributed Constraint Optimization	
	Delft University (TU Delft).	Apr 2016
	University of Udine. New Mexico State University.	Apr 2016 Mar 2016
>	Invited talk : Large Neighboring Search for Distributed Constrained Optimization.	Mar 2016 Mar 2016
	Ben-Gurion University of the Negev	

## Internal Service

SCHOOL/DEPARTMENT SERVICE (AT UVA) Search Committee (Teaching track)	2024 - 2025
<ul> <li>&gt; Graduate Program Committee</li> </ul>	2023 - 2025
> Advisor ACM SIGAI at UVA	2023 - 2024
SCHOOL/DEPARTMENT SERVICE (AT SU) > Curriculum Committee	2023 - 2024
<ul> <li>Prepare and Grade Qualifier exam (Programming/Data Structure)</li> </ul>	2023 - 2024 2022 - 2023
<ul> <li>Academic Integrity panelist</li> </ul>	2021 - 2022
<ul> <li>Remembrance Scholars Selection Committee</li> </ul>	2022
Professional Service	
Conference Chair	
International Conference on Principles and Practice of Constraint Programming (CP) with Roie Zivan	2022
WORKSHOP CHAIR <ul> <li>Sixth AAAI Workshop on Privacy Preserving Artificial Intelligence (PPAI), at AAAI</li> </ul>	2025
with Juba Ziani, Wanrong Zhang, and Jeremy Seeman	
> Algorithmic Fairness through the lens of Metrics and Evaluation (AFME), at NeurIPS	2024
with Awa Dieng, Miriam Rateike, and Golnoosh Farnadi AAAI Workshop on Learnable Optimization (LEARNOPT), at AAAI	2024
with Elias B. Khalil, Pascal Van Hentenryck, Jan Drgona, Draguna Vrabie, and Priya Donti	2024
> Fifth AAAI Workshop on Privacy Preserving Artificial Intelligence (PPAI), at AAAI with Juba Ziani, Christine Task, and Niloofar Mireshghallah	2024
> Algorithmic Fairness through the lens of Time (AFT), at NeurIPS	2023
with Awa Dieng, Miriam Rateike, and Golnoosh Farnadi	
> Workshop on Optimization and Learning in Multi-Agent Systems, at AAMAS with Hau Chan, Jiaoyang Li, Filippo Bistaffa, and James Kotary	2023
Fourth AAAI Workshop on Privacy Preserving Artificial Intelligence (PPAI), at AAAI with Catuscia Palamidessi, and Pascal Van Hentenryck	2023
> Algorithmic Fairness through the lens of Causality and Privacy (AFCP), at NeurIPS with Awa Dieng, Miriam Rateike, and Golnoosh Farnadi	2022
> Workshop on Optimization and Learning in Multi-Agent Systems, at AAMAS with Hau Chan and Jiaoyang Li	2022
> Third AAAI Workshop on Privacy Preserving Artificial Intelligence (PPAI), at AAAI with Aleksandra Korolova and Pascal Van Hentenryck	2022
> AAAI Workshop on Machine Learning for Operational Research (ML4OR), at AAAI with Emma Frejinger, Elias Khalil, and Pashootan Vaezipoor	2022
Second AAAI Workshop on Privacy Preserving Artificial Intelligence (PPAI), at AAAI with Pascal Van Hentenryck and Richard W. Evans	2021
> Workshop on Optimization and Learning in Multi-Agent Systems (OptLearnMAS), at AA with Amulya Yadev, Gauthier Picard, and Bryan Wilder	MAS 2021
> First AAAI Workshop on Privacy Preserving Artificial Intelligence (PPAI), at AAAI with Pascal Van Hentenryck and Rachel Cummings	2020
> Workshop on Optimization and Learning in Multi-Agent Systems (OptLearnMAS), at AA with Bryan Wilder and Long Tran-Thanh	MAS 2020
> Workshop on Optimization in Multi-Agent Systems (OptMAS), at AAMAS with Archie Chapman and Long Tran-Thanh	2019
> Workshop on Optimization in Multi-Agent Systems (OptMAS), at FAIM18 with Archie Chapman, Long Tran-Thanh, and Roie Zivan	2018

Tutorial Chair: The ACM International Conference on All in Finance (ICAIF)         2023           Demo Track Chair: International Conference on Autonomous Agents and Multiagent Systems (VMMAS)         2023           Track Chair: International Conference on Autonomous Agents and Multiagent Systems (VMMAS)         2023           Track Chair: International Conference on Functioles and Practice of Constraint Programming (CP)         2018           Publicity Chair: International Conference on Logic Programming (ICLP)         2019           Track Chair: International Conference on Logic Programming (ISMP)         2018           WARB COMMITTE         2024           AVABE ComMITTE         2024           AVABE ComMITTE         2024           AVABE ComMITTE         2025-2028           Associate Editor: IISE Transactions Special issue on Federated Learning         2023           Stever To JOURNAS         2025-2028           Sectorial Board Member: Artificial Intelligence (AUI)         2025-2028           Associate Editor: IISE Transactions Special issue on Federated Learning         2023           Stever Editor: IISE Transactions Special issue on Federated Learning         2024           AVIC Conference on Artificial Intelligence (ILCA)         2024           AVIC Conference on Artificial Intelligence (ILCA)         2024           AVIC Conference on Artificial Intelligence (ILCA)         2025	Conference Organizing Committee	
<ul> <li>Scholarship Chair: International Conference on Autonomous Agents and Multiagent Systems (AMAAS)</li> <li>Tutorial Chair: International Conference on Principles and Protecte of Constraint Programming (CP)</li> <li>Publicity Chair: International Conference on Logic Programming (ICP)</li> <li>Track Chair: International Conference on Logic Programming (ICP)</li> <li>Track Chair: International Conference on Logic Programming (ICP)</li> <li>Track Chair: International Conference on Logic Programming (ISMP)</li> <li>Track Chair: International Conference on Logic Programming (ICP)</li> <li>SSNAF Mario Genla Young Investigator Award</li> <li>SSNAF Auto Conference on Artificial Intelligence (AAA)</li> <li>Conference on Artificial Intelligence (ICA)</li> <li>Conference on Artificial Intelligence (ICA)</li> <li>Conference on Artificial Intelligence (ICA)</li> <li>Co</li></ul>		2025
<ul> <li>&gt; Tutorial Chair : International Conference on Autonomous Agents and Multiagent Systems (AAMAS)</li> <li>2022</li> <li>&gt; Track Chair : International Conference on Logic Programming (ICP)</li> <li>2018</li> <li>&gt; Publicity Chair : International Conference on Logic Programming (ISMP)</li> <li>2018</li> <li>ACP Early Carer Researcher Award committee</li> <li>2023</li> <li>SERVECE TO JOURNAS</li> <li>&gt; Editorial Board Member : Artificial Intelligence (ALI)</li> <li>2024-present</li> <li>Editorial Board Member : Artificial Intelligence (ALI)</li> <li>2024-present</li> <li>Editorial Board Member : Artificial Intelligence (ALI)</li> <li>2024-present</li> <li>Editorial Board Member : Artificial Intelligence (ALI)</li> <li>2024-present</li> <li>Secorate Theory and Practice of Logic Programming</li> <li>2018</li> <li>Secorate Agent Anno</li> <li>2023</li> <li>Secorate Agent Anno</li> <li>2024-present</li> <li>2025-2028</li> <li>2028</li> <li>Secorate Constraint) Logic Programming</li> <li>2029</li> <li>2028</li> <li>2029</li> <li>2029</li> <li>2020</li> <li>2024</li> <li>2025</li> <li>2020</li> <li>2024</li> <li>2025</li> <li>2024</li> <li>2024</li> <li>2025</li> <li>2024</li> <li>2025</li> <li>2024</li> <li>2024</li> <li>2025</li> <li>2024</li> <li>2024</li> <li>2024</li> <li>2025</li> <li< td=""><td>&gt; Demo Track Chair : International Joint Conference on Artificial Intelligence (IJCAI)</td><td>2023</td></li<></ul>	> Demo Track Chair : International Joint Conference on Artificial Intelligence (IJCAI)	2023
> Track Chair: International Conference on Logic Programming (ICP)         2018 - 2019         2018 - 2019         2019           > Track Chair: International Conference on Logic Programming (ICP)         2019           > Track Chair: International Conference on Logic Programming (ISMP)         2018           > ACPE Darly Career Researcher Award committee         2024           > ISSNAF Mario Genla Young Investigator Award         2023           Server En Journaus         2024-present           > Associate Editor: IISE Transactions Special Save on Federated Learning         2023           > Guest Editor: Theory and Practice of Logic Programming (TPLP) Post and Present (and Fature) of Parallel and Distributed Computation in (Constraint) Logic Programming         2023           > AAAI Conference on Artificial Intelligence (AAAI)         2025           > AAAI Conference on Artificial Intelligence (IAAII)         2024 - 2025           > International Joint Conference on Artificial Intelligence (IJCAI)         2024 - 2025           > International Conference on Artificial Intelligence (IJCAI)         2024 - 2025           > International Conference on Artificial Intelligence (IJCAI)         2021 - 2023           > International Conference on Artificial Intelligence (IJCAI)         2021 - 2023           > International Conference on Artificial Intelligence (IJCAI)         2021 - 2023           > International Conference on Artificial Intelligence (IJCAI)		2023
> Publicity Chair: International Conference on Logic Programming (ICLP)         2019           > Track Chair: International Symposium on Mathematical Programming (ISMP)         2018           AWARD COMMITTEE         2024           > ACP Early Career Researcher Award committee         2024           > ISSNAF Mario Gefla Young Investigator Award         2023           SERVICE TO JOURNALS         2024-present           > Editorial Board Member: Journal of Artificial Intelligence Research (JAR)         2025-2028           > Associate Editor: INSE Transactions Special issue on Federated Learning         2023           > Guest Editor: INSE Transactions Special issue on Federated Learning         2018           > Sentor AREA CHAIR         2019           > AVAI Conference on Artificial Intelligence (AAI)         2024 - 2025           > International Joint Conference on Artificial Intelligence (ICA)         2024 - 2025           > International Joint Conference on Artificial Intelligence (ICA)         2021 - 2023           > International Joint Conference on Artificial Intelligence (ICA)         2021 - 2022           > Neural Information Processing Systems (NeurIPS)         2022 - 2024           > International Conference on Artificial Intelligence (ICA)         2021 - 2023           > International Conference on Artificial Intelligence (ICA)         2021 - 2023           > International Conference on Artificial I		2022
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> International Conference on Principles and Practice of Constraint Programming (CP)2016 - 2018, 2021> International Joint Conference on Artificial Intelligence (IJCAI)2016 - 2020> European Conference on Machine Learning (ECML)2020	> Electric Power System Research (PSCC)	2022
> International Joint Conference on Artificial Intelligence (IJCAI)2016 - 2020> European Conference on Machine Learning (ECML)2020	<ul> <li>International Conference on Logic Programming (ICLP)</li> </ul>	2021
> European Conference on Machine Learning (ECML) 2020		2016 - 2018, 2021
<ul> <li>International Symposium on Combinatorial Search (SoCS)</li> <li>2015 – 2020</li> </ul>		
	<ul> <li>International Symposium on Combinatorial Search (SoCS)</li> </ul>	2015 – 2020

> International Workshop on Optimization and Learning in Multi-Agent Systems (OptLearnM	AS) 2020
<ul> <li>AAAI Conference on Artificial Intelligence (AAAI)</li> </ul>	2018 - 2019
<ul> <li>Italian Conference on Computational Logic (CILC)</li> </ul>	2017 - 2019
<ul> <li>Distributed Artificial Intelligence (DAI)</li> </ul>	2019
> European Conference on Artificial Intelligence (ECAI)	2016 - 2018
<ul> <li>International Workshop on Optimization in Multi-Agent Systems (OptMAS)</li> </ul>	2016 - 2017
<ul> <li>Italian Conference on Artificial Intelligence (AI*IA)</li> </ul>	2017
JOURNAL REVIEWER   Harvard Data Science Review	2024
<ul> <li>INFORMS Journal on Computing</li> </ul>	2022, 2023
<ul> <li>Transactions on Machine Learning Research (TMLR)</li> </ul>	2022
> Journal of Artificial Intelligence Research (JAIR)	2016 – 2022
<ul> <li>Artificial Intelligence Journal (AIJ)</li> </ul>	2016 – 2021
<ul> <li>Journal of Machine Learning Research (JMLR)</li> </ul>	2021
> IEEE Transactions on Smart Grid	2019 – 2021
> IEEE Transactions on Power Systems	2020 - 2021
<ul> <li>IEEE Transactions on Dependable and Secure Computing</li> </ul>	2020
<ul> <li>IEEE Transactions on Information Forensics &amp; Security</li> </ul>	2019 – 2020
> Gates Open Research	2020
> Patterns	2020
<ul> <li>Autonomous Agents and Multi-Agent Systems (JAAMAS)</li> </ul>	2014 - 2017, 2019 - 2020, 2023
<ul> <li>Artificial Intelligence Review (AIR)</li> </ul>	2016 - 2017
> Fundamenta Informaticae Journal	2016 - 2017
> AI Communications	2017
> Algorithms for Molecular Biology (AMB)	2014
Doctoral Consortia Mentoring	
> AAAI Conference on Artificial Intelligence (AAAI)	2022
Conference/Symposium/Workshop Reviewer	
> European Control Conference (ECC)	2021
> AAAI Conference on Artificial Intelligence (AAAI)	2014 - 2017
> International Conference on Autonomous Agents and Multiagent Systems (AAMAS)	2014 - 2016
> International Conference on Principles and Practice of Constraint Programming (CP)	2016 - 2017
> International Conference on Principles and Practice of Multi-Agent Systems (PRIMA)	2016
<ul> <li>International Joint Conference on Artificial Intelligence (IJCAI)</li> </ul>	2015
<ul> <li>International Conference on Logic Programming (ICLP)</li> </ul>	2015
<ul> <li>International Symposium on Combinatorial Search (SoCS)</li> </ul>	2014
<ul> <li>International Workshop on Distributed Constraint Reasoning (DCR)</li> </ul>	2014
> EURO-Par Parallel Processing (EUROPAR)	2014
<ul> <li>Principles and Practice of Declarative Programming (PPDP)</li> </ul>	2014
Panel Reviewer	
> NSF, TIP Panel	2025
<ul> <li>The Royal Society, Dorothy Hodgkin Fellowships</li> </ul>	2025
> NSF, CISE Panel (×2)	2024
<ul> <li>Austrian Research Promotion Agency (FFG)</li> </ul>	2023
<ul> <li>NSF, Eng Panel</li> </ul>	2023
> NSF, NRT Panel	2022
> NSF, SaTC Panel	2022
> NSF, CISE Panel	2022

<ul> <li>Israel Science Foundation (IIS) (external reviewer)</li> </ul>	2022 - 2023
> Climate Change AI (CCAI) Grant	2022 - 2023
<ul> <li>CUSE Grant, Syracuse University</li> </ul>	2020 - 2021
> NSF, CISE RI (external reviewer)	2020