Talal Rahwan

Bio

Talal Rahwan is an Associate Professor of Computer Science and the director of the Data Science and AI Lab at New York University Abu Dhabi. He earned his Ph.D. in Computer Science in 2007 from the University of Southampton, UK, where he received the Dean's award for Early Career Researcher. His Ph.D. thesis earned him the British Computer Society's Distinguished Dissertation Award, which annually recognizes the most outstanding thesis in the UK in Computer Science. He was selected by the IEEE Computer Society as one of the ten most promising, young Artificial Intelligence (AI) researchers in the world. His work appeared in major academic journals such as Nature, Science, and PNAS. His research received coverage from media outlets worldwide, including Nature, Science, The Times, The Boston Globe, The Independent, New Scientist, Times Higher Education, and Scientific American. Dr. Rahwan's research interests include Data Science, Computational Social Science, Graph Theory, and AI.

Education

- **2003 – 2007: Ph.D. in Computer Science**
  - School of Electronics and Computer Science (ECS), University of Southampton, UK.
  - Dissertation Title: Algorithms for Coalition Formation in Multi-Agent Systems.
- **1998 – 2003**: **B.Eng. in Informatics**
  - Informatics Engineering, University of Aleppo, Syria (specialization: Software Engineering).

Employment

- **2018 – present: Associate Professor of Computer Science**
  - Department of Computer Science, New York University Abu Dhabi, UAE.
- **2013 – 2018: Assistant Professor of Computer Science**
  - Department of Computer Science, Masdar Institute, Khalifa University, UAE.
- **2008 – 2013: Research Fellow/ Senior Research Fellow**
  - School of Electronics and Computer Science, University of Southampton, UK.

Selected Publications

- H Ibrahim, F Liu, K Mengal, AR Kaufman, Y Zaki, T Rahwan (2026). "*Causal evidence of racial and institutional biases in accessing paywalled articles and scientific data.*" **Science**. Accepted, in press.
- H Ibrahim, H Jang, N Aldahoul, A Kaufman, T Rahwan, Y Zaki (2026). "*Systematic partisan content skews in TikTok during the 2024 U.S. elections.*" **Nature**. Accepted, in press.
- Y Duan, SA Memon, B AlShebli, Q Guan, P Holme, T Rahwan (2025). "*Postdoc publications and citations link to academic retention and faculty success.*" **PNAS (Proceedings of the National Academy of Sciences)**. Media coverage: Nature, Times Higher Education, The Scientist, Phys.org, Inside Higher Ed, Wonkhe, Physics World, The Transmitter, American Physical Society.
- F Liu, P Holme, M Chiesa, B AlShebli, T Rahwan (2023). "*Gender inequality and self-publication are common among academic editors.*" **Nature Human Behaviour**. Media coverage: Nature, Times Higher Education, Nature Middle East, University World News, Khaleej Times, Nature News and Views, EurekAlert, New Scientist.
- F Liu, T Rahwan, B AlShebli (2023). *Non-White scientists appear on fewer editorial boards, spend more time under review, and receive fewer citations.* **PNAS (Proceedings of the National Academy**

of Sciences). Media coverage: Nature, Science & Development Network, Phys.org, American Physical Society, EurekAlert!, Physics World, University World News.

- K Makovi, A Sargsyan, J Bonnefon, T Rahwan (2023). "*Trust within human-machine collectives depends on the perceived consensus about cooperative norms*". **Nature Communications**. PsyPost
- M Chaqfeh, B AlShebli, MF Zaffar, T Rahwan, Y Zaki (2023). "*Towards a World Wide Web without digital inequality*." **PNAS (Proceedings of the National Academy of Sciences)**. Media coverage Nature Middle East.
- H Ibrahim, N AlDahoul, S Lee, T Rahwan, Y Zaki (2023). "*YouTube's recommendation algorithm is left-leaning in the United States*". **PNAS Nexus**. Media coverage: Daily Caller, American Council on Science and Health, The College Fix, PsyPost.
- H Ibrahim, F Liu, T Rahwan, Y Zaki et al. (2023). "*Perception, Performance, and Detectability of Conversational Artificial Intelligence Across 32 University Courses*". **Scientific Reports**. Media coverage: New Scientist, Scientific American, The Times, The Independent, Nature Asia, GovTech, The Daily Beast, EurekAlert!, Daily Mail, The National, Neuroscience News, Nature Middle East.
- F Ishowo-Oloko, J Bonnefon, J Crandall, I Rahwan, T Rahwan (2019). "*Behavioural Evidence for a Transparency-Efficiency Tradeoff in Human-Machine Cooperation*." **Nature Machine Intelligence**. Media coverage: Boston Globe, Nature Middle East, Khaleej Times, Scientific American, Psychology Today, WIRED, New Statesman.
- M Waniek, T Michalak, M Wooldridge, T Rahwan (2018). "*Hiding Individuals and Communities in a Social Network*." **Nature Human Behaviour**: Motherboard, Polish Ministry of Higher Education
- B AlShebli, T Rahwan, W Woon (2018). "*The Preeminence of Ethnic Diversity in Scientific Collaborations*." **Nature Communications**. Media coverage: Nature News, Physics World.

All Publications

For each publication, my role is specified as [mentor], [author], or [lead]. As for co-authors, their names are coloured as follows: Red = my name; Green = student in my lab; Purple = student in a different lab; Orange = postdoc or research engineer in my lab.

P103. [mentor]: H Ibrahim, F Liu, K Mengal, AR Kaufman, Y Zaki, T Rahwan (2026). "*Causal evidence of racial and institutional biases in accessing paywalled articles and scientific data.*" **Science**. Accepted, in press.

P102. [mentor]: H Ibrahim, H Jang, N Aldahoul, A Kaufman, T Rahwan, Y Zaki (2026). "*Systematic partisan content skews in TikTok during the 2024 U.S. elections.*" **Nature**. Accepted, in press.

P101. [mentor]: F Liu, B AlShebli, T Rahwan (2026). "*Prevalence of editorial conflicts of interest for research-active scientists across six publishing bodies and the impact of related governing policies.*" **Nature Communications**. Accepted, in press.

P100. [mentor]: Y Duan, SA Memon, B AlShebli, Q Guan, P Holme, T Rahwan (2025). "*Postdoc publications and citations link to academic retention and faculty success.*" **PNAS (Proceedings of the National Academy of Sciences).** Publisher: United States National Academy of Sciences.

P99. [lead]: N AlDahoul, T Rahwan, Y Zaki (2025). "*AI-generated faces influence gender stereotypes and racial homogenization.*" **Scientific Reports.** Publisher: Nature Research.

P98. [mentor]: H Ibrahim, F Liu, Y Zaki, T Rahwan (2025). "*Citation manipulation through citation mills and pre-print servers.*" **Scientific Reports**. Publisher. Nature Research.

P97. [lead]: K Makovi, JF Bonnefon, M Oudah, A Sargsyan, T Rahwan (2025). "*Rewards and Punishments Help Humans Overcome Biases Against Cooperation Partners Assumed to be Machines.*" **iScience.** Publisher: Cell Press.

P96. [lead]: S Benabderrahmane, J Cheney, T Rahwan (2025) *Ranking-enhanced anomaly detection using Active Learning-assisted Attention Adversarial Dual AutoEncoder.*" **Scientific Reports**. Publisher: Nature Research.

P95. [lead]: S Benabderrahmane, T Rahwan (2025). "*From One Attack Domain to Another: Contrastive Transfer Learning with Siamese Networks for APT Detection.*" **Knowledge-Based Systems**. Publisher: Elsevier.

P94. [author]: F Marmolejo-Ramos, T Rahwan, and co-authors (2025). "*Factors influencing trust in algorithmic decision-making: an indirect scenario-based experiment.*" **Frontiers in Artificial Intelligence**. Publisher: Frontiers.

P93. [lead]: B AlShebli, SA Memon, JA Evans, T Rahwan (2024). "*China and the US produce more impactful AI research when collaborating together*." **Scientific Reports**. Publisher. Nature Research.

P92. [lead]: M Oudah, K Makovi, K Gray, B Battu, T Rahwan (2024). "*Perception of experience influences altruism and perception of agency influences trust in human-machine interactions.*" **Scientific Reports**. Publisher. Nature Research.

P91. [mentor]: H Ibrahim, M Debicki, T Rahwan, Y Zaki (2024). "*Big Tech Dominance Despite Global Mistrust.*" **IEEE Transactions on Computational Social Systems**. Publisher: IEEE.

P90. [mentor]: M Kim, S Benabderrahman, T Rahwan (2024). "*Interpretable Machine Learning Model for Predicting Activist Investment Targets.*" **Journal of Finance and Data Science**. Publisher: Elsevier.

P89. [lead]: S Benabderrahmane, N Hoang, P Valtchev, J Cheney, T Rahwan (2024). "*Hack me if you can: Aggregating autoencoders for countering persistent access threats within highly imbalanced data*." **Future Generation Computer Systems**. Publisher: Elsevier.

P88. [mentor]: MT Godziszewski, M Waniek, Y Zhu, K Zhou, T Rahwan, TP Michalak (2024). "*Adversarial analysis of similarity-based sign prediction*." **Artificial Intelligence (AIJ)**. Publisher: Elsevier.

P87. [author]: N AlDahoul, T Rahwan, Y Zaki (2024). "*PoLYTC: A novel BERT-based classifier to detect political leaning of YouTube videos based on their titles*." **Journal of Big Data**. Publisher: Springer.

P86. [author]: A Abeliuk, K Elbassioni, T Rahwan, M Cebrian, I Rahwan (2024). "*Price of Anarchy in Algorithmic Matching of Romantic Partners*." **ACM Transactions on Economics and Computation**. Publisher: ACM (Association for Computing Machinery).

P85. [lead]: Y Lai, M Waniek, L Li, J Wu, Y Zhu, TP Michalak, T Rahwan, K Zhou (2024). "*Coupled-Space Attacks Against Random-Walk-based Anomaly Detection.*" **IEEE Transactions on Information Forensics & Security.** Publisher: IEEE.

P84. [mentor]: F Liu, T Rahwan, B AlShebli (2023). "*Non-White scientists appear on fewer editorial boards, spend more time under review, and receive fewer citations.*" **PNAS (Proceedings of the National Academy of Sciences)**. Publisher: United States National Academy of Sciences.

P83. [mentor] F Liu, P Holme, M Chiesa, B AlShebli, T Rahwan (2023). *Gender inequality and self-publication are common among academic editors.*" **Nature Human Behaviour**. Publisher: Nature Research.

P82. [lead]: M Chaqfeh, R Asim, B AlShebli, M Zaffar, T Rahwan, Y Zaki (2023). "*Towards a World Wide*

Web without digital inequality." **PNAS (Proceedings of the National Academy of Sciences)**. Publisher: United States National Academy of Sciences.

P81. [lead]: K Makovi, A Sargsyan, W Li, J Bonnefon, T Rahwan (2023). "*Trust within human-machine collectives depends on the perceived consensus about cooperative norms.*" **Nature Communications** Publisher: Nature Research.

P80. [mentor]: H Ibrahim, N AlDahoul, S Lee, T Rahwan, Y Zaki (2023). "*YouTube's recommendation algorithm is left-leaning in the United States*". **PNAS Nexus**. Publisher: United States National Academy of Sciences.

P79. [lead]: M Waniek, N Suri, A Zameek, B AlShebli, T Rahwan (2023). *"Human intuition as a defense against attribute inference"*. **Scientific Reports**. Publisher: Nature Research.

P78. [lead]: B Battu, T Rahwan (2023). "*Cooperation without punishment"*. **Scientific Reports**. Publisher: Nature Research.

P77. [lead]: H Ibrahim, F Liu, T Rahwan, Y Zaki, et al. (2023). "*Perception, performance, and detectability of conversational artificial intelligence across 32 university courses.*" **Scientific Reports**.

P76. [mentor]: H Ibrahim, R Asim, F Zaffar, T Rahwan, Y Zaki (2023). **"***Rethinking Homework in the Age of Artificial Intelligence*". **IEEE Intelligent Systems**. Publisher: IEEE.

P75. [lead]: M Waniek, J Woźnica, K Zhou, Y Vorobeychik, T Michalak, T Rahwan (2023). "*Hiding from Centrality Measures: A Stackelberg Game Perspective*". **IEEE Transactions on Knowledge and Data Engineering**. Publisher: IEEE.

P74. [author]: A Abeliuk, K Elbassioni, T Rahwan, M Cebrian, I Rahwan (2023). "*Price of Anarchy in Algorithmic Matching of Romantic Partners."* **ACM Transactions on Economics and Computation**. Publisher: ACM (Association for Computing Machinery).

P73. [lead]: M Waniek, W Magdy, T Rahwan (2022). "*Hiding Opinions from Machine Learning*." **PNAS Nexus**. Publisher: United States National Academy of Sciences.

P72. [lead]: M Waniek, P Holme, K Farrahi, R Emonet, M Cebrian, T Rahwan (2022). "*Trading contact tracing efficiency for finding patient zero*." **Scientific Reports**. Publisher: Nature Research.

P71. [lead]: M Waniek, P Holme, M Cebrian, T Rahwan (2022). "*Social diffusion sources can escape detection*." **iScience**. Publisher: Cell Press.

P70. [lead]: B AlShebli, E Cheng, M Waniek, R Jagannathan, P Hernandez-Lagos, T Rahwan (2022). "*Beijing's Central Role in Global Artificial Intelligence Research*." **Scientific Reports**. Publisher: Nature Research.

P69. [lead]: M Waniek, P Holme, T Rahwan (2022) "*Hiding in Temporal Networks"* **IEEE Transaction on Network Science and Engineering**. Publisher: IEEE.

P68. [mentor]: M Chaqfeh, R Coke, J Hu, W Hashmi, L Subramanian, T Rahwan, Y Zaki (2022) "*JSAnalyzer: A Web Developer Tool for Simplifying Mobile Web Pages Through Non-Critical JavaScript Elimination."* **ACM Transactions on the Web**. Publisher: ACM (Association for Computing Machinery).

P67. [lead]: M Waniek, G Raman, B AlShebli, J Peng, T Rahwan (2021). "*Traffic Networks are Vulnerable to*

Disinformation Attacks." **Scientific Reports**. Publisher: Nature Research.

P66. [mentor]: M Godziszewski, M Waniek, Y Zhu, K Zhou, T Rahwan, and T Michalak (2021). "*Attacking Similarity-Based Sign Prediction*." In Proceedings of the 21st **International Conference on Data Mining (ICDM)** in Auckland, New Zealand. Acceptance rate 20%.

P65. [lead]: M Waniek, J Woźnica, K Zhou, Y Vorobeychik, T Rahwan, T Michalak (2021). "*Strategic Evasion of Centrality Measures*." In Proceedings of the 20th International Conference on **Autonomous Agents and Multi-Agent Systems (AAMAS)** in London, UK. Acceptance rate 25%.

P64. [lead]: M Sahakyan, Z Aung, T Rahwan. (2021). "*Explainable Artificial Intelligence for Tabular Data: A Survey*." **IEEE Access**. Publisher: IEEE.

P63. [lead]: M Waniek, T Michalak, M Wooldridge, T Rahwan (2021). "*How Members of Covert Networks Conceal the Identities of Their Leaders.*" **ACM Transactions on Intelligent Systems and Technology** (TIST) 13.1: 1-29.

P62. [mentor]: G Raman, B AlShebli, M Waniek, T Rahwan, J Peng (2020). "*How weaponizing disinformation can bring down a city's power grid*." **PLOS ONE**, 15(8), e0236517.

P61. [lead]: M Waniek, T Michalak, T Rahwan (2020). "*Hiding in Multilayer Networks*." In Proceedings of the 34th **AAAI Conference on Artificial Intelligence**, in New York, USA. Acceptance rate 21%.

P60. [mentor]: T Wąs, M Waniek, T Rahwan, T Michalak (2020). "*The Manipulability of Centrality Measures - An Axiomatic Approach*." In Proceedings of the 19th International Conference on **Autonomous Agents and Multi-Agent Systems (AAMAS)** in New Zealand. Acceptance rate 23%.

P59. [mentor]: S Maleki, T Rahwan, S Ghosh, A Malibari, D Alghazzawi, A Rogers, H Beigy, N Jennings (2020). "*The Shapley Value for a Fair Division of Group Discounts for Coordinating Cooling Loads*." **PLOS ONE**, 15(1), e0227049.

P58. [lead]: F Ishowo-Oloko, J Bonnefon, Z Soroye, J Crandall, I Rahwan, T Rahwan (2019). "*Behavioural Evidence for a Transparency-Efficiency Tradeoff in Human-Machine Cooperation*." **Nature Machine Intelligence**, 1(11), 517-521. Publisher: Nature Research.

P57. [lead]: M Waniek, K Zhou, Y Vorobeychik, E Moro, T Michalak, T Rahwan (2019). "*How to Hide One's Relationships from Link Prediction Algorithms*." **Scientific Reports**, 9(1), 1-10. Publisher: Nature Research

P56. [lead]: B AlShebli, O.Skibski, M Wooldridge, T Michalak, T Rahwan (2019). "*A Measure of Added Value in Groups*." **ACM Transactions on Autonomous and Adaptive Systems**. 13(4), 18. Publisher: ACM (Association for Computing Machinery).

P55. [author]: O Skibski, T Rahwan, T Michalak, M Yokoo (2019). "*Attachment Centrality: Measure for Connectivity in Networks*." **Artificial Intelligence (AIJ)**. 274. Pages: 151--179. Publisher: Elsevier.

P54. [author]: O Skibski, T Rahwan, T Michalak, M Wooldridge (2019). "*Enumerating Connected Subgraphs and Computing the Myerson and Shapley Values in Graph-Restricted Games*." **ACM Transactions on Intelligent Systems and Technology**. Publisher: ACM (Association for Computing Machinery).

P53. [lead]: G Raman, J Peng, T Rahwan (2019). "*Manipulating Residents' Behavior to Attack the Urban Power Distribution System*." **IEEE Transactions on Industrial Informatics**. Publisher: IEEE.

P52. [mentor]: T Was, T Rahwan, O Skibski (2019). "*Random Walk Decay Centrality*." In Proceedings of the 33rd **AAAI Conference on Artificial Intelligence**, in Hawaii, USA. Acceptance rate 16%.

P51. [mentor]: K Zhou, T Michalak, M Waniek, T Rahwan, Y Vorobeychik (2019). "*Attacking Similarity-Based Link Prediction in Social Networks*." In Proceedings of the 18th International Conference on **Autonomous Agents and Multi-Agent Systems (AAMAS)** in Montreal. Acceptance rate 24%.

P50. [mentor]: B AlShebli, T Rahwan, W Woon (2018). "*The Preeminence of Ethnic Diversity in Scientific Collaborations*." **Nature Communications**. Publisher: Nature Research, 9(1), 1-10.

P49. [lead] M Waniek, T Michalak, M Wooldridge, T Rahwan (2018). *Hiding Individuals and Communities in a Social Network*. **Nature Human Behaviour**. Publisher: Nature Research, 2(2), 139-147.

P48. [author]: O Skibski, T Michalak, T Rahwan (2018). "*Axiomatic Characterization of Game-Theoretic Centrality*." **Journal of Artificial Intelligence Research (JAIR)**. 62. Pages: 33-68 Publisher: AAAI (Association for the Advancement of Artificial Intelligence).

P47. [author]: L Kotthoff, T Michalak, T Rahwan, H Hoos, K Leyton-Brown (2018). "*Quantifying Algorithmic Improvements over Time*." In Proceedings of the 27th **International Joint Conference on Artificial Intelligence (IJCAI)**, Special Track on the Evolution of the Contours of AI, in Stockholm, Sweden. Acceptance rate 23%.

P46. [mentor]: M Oudah, T Rahwan, T Crandall, J Crandall (2018). "*How AI Wins Friends and Influences People in Repeated Games with Cheap Talk*." In Proceedings of the 32nd **AAAI Conference on Artificial Intelligence**, in New Orleans, Louisiana, USA. Acceptance rate 25%.

P45. [lead]: M Aftab, C Chen, C Chau, T Rahwan (2017). "*Automatic HVAC control with real-time occupancy recognition and simulation-guided model predictive control in low-cost embedded system*." **Energy and Buildings**. Volume: 154. Pages: 141--156. Publisher: Elsevier.

P44. [author]: F Jahedpari, T Rahwan, S Hashemi, T Michalak, M De Vos, J Padget, W Woon (2017). "*Online Prediction via Artificial Continuous Prediction Markets*." **IEEE Intelligent Systems**. 32(1). Pages 61--68. Publisher: IEEE.

P43. [author]: T Michalak, T Rahwan, M Wooldridge (2017). "*Strategic Social Network Analysis*." In Proceedings of the 31st **AAAI Conference on Artificial Intelligence**, in San Francisco, USA. Featured in the Senior Member track. According to the conference's website:

> The Senior Member track is "*open to researchers who have acquired an international recognition, and have established a significant publication record of [Artificial Intelligence]-related research"*, to present a *"well-developed body of research, an important new research area, or a promising new topic."*

P42. [author]: O Skibski, T Rahwan, T Michalak (2017). "*Axiomatic Characterization of Game-Theoretic Network Centralities*." In Proceedings of the 31st **AAAI Conference on Artificial Intelligence**, in San Francisco, USA. Acceptance rate 25%.

P41. [mentor]: M Waniek, T Michalak, T Rahwan, M Wooldridge (2017). "*On the Construction of Covert Networks*." In Proceedings of the 16th International Conference on **Autonomous Agents and Multi-Agent Systems (AAMAS)** in Sao Paulo, Brazil. Acceptance rate 26%.

P40. [author]: T Michalak, T Rahwan, E Elkind, M Wooldridge, N Jennings (2016). "*A Hybrid Exact Algorithm for Complete Set Partitioning*." **Artificial Intelligence (AIJ)**. 230. Pages 14--40. Publisher: Elsevier.

P39. [lead]: P Szczepanski, T Michalak, T Rahwan (2016). "*Efficient Algorithms for Game-Theoretic Betweenness Centrality*." **Artificial Intelligence (AIJ)**. 231. Pages 39--63. Publisher: Elsevier.

P38. [author]: O Skibski, T Rahwan, T Michalak, M Yokoo (2016). "*Attachment Centrality: An Axiomatic Approach to Connectivity in Networks*." In Proceedings of the 15th International Conference on **Autonomous Agents and Multi-Agent Systems (AAMAS)** in Singapore. Acceptance rate 25%.

P37. [author]: M Tarkowski, P Szczepanski, T Rahwan, T Michalak, M Wooldridge (2016). "*Closeness Centrality for Networks with Overlapping Community Structure*." In Proceedings of the 30th **AAAI Conference on Artificial Intelligence**, in Phoenix, USA. Acceptance rate 26%.

P36. [author]: A Frechette, L Kotthoff, T Michalak, T Rahwan, H Hoos, K Leyton-Brown (2016). "*Using the Shapley Value to Analyze Algorithm Portfolios*." In Proceedings of the 30th **AAAI Conference on Artificial Intelligence**, in Phoenix, USA. Acceptance rate 26%.

P35. [author]: P Szczepanski, T Rahwan, T Michalak, M Wooldridge (2016). "*An Extension of the Owen-Value interaction index and Its Application to Inter-links Prediction*." In Proceedings of the 22nd **European Conference on Artificial Intelligence (ECAI)** in Netherlands. Acceptance rate 27%.

P34. [lead]: T Rahwan, T Michalak, M Wooldridge, N Jennings (2015). "*Coalition Structure Generation: A Survey*." **Artificial Intelligence (AIJ)**. 229. Pages 139--174. Publisher: Elsevier.

P33. [author]: T Michalak, T Rahwan, O Skibski, M Wooldridge (2015). "*Defeating Terrorist Networks with Game Theory."* **IEEE Intelligent Systems**. 30(1). Pages 53--61. Publisher: IEEE.

P32. [author]: T Michalak, T Rahwan, S Moretti, R Narayanam, O Skibski, P Szczepankski, M Wooldridge (2015). "*A New Approach to Measure Social Capital using Game-Theoretic Techniques*." **ACM Special Interest Group on E-commerce**. 14(1). Publisher: ACM (Association for Computing Machinery).

P31. [mentor]: P Szczepanski, T Michalak, T Rahwan (2015). "*The Game-Theoretic Interaction Index on Social Networks with Applications to Link Prediction and Community Detection*." In Proceedings of the 24th **International Joint Conference on Artificial Intelligence (IJCAI)** in Buenos Aires, Argentina. Acceptance rate 29%.

P30. [mentor]: M Waniek, A Niescieruk, T Michalak, T Rahwan (2015). "*Spiteful Bidding in the Dollar Auction*." In Proceedings of the 24th **International Joint Conference on Artificial Intelligence (IJCAI)** in Buenos Aires, Argentina. Acceptance rate 29%.

P29. [author]: T Michalak, P Szczepanski, T Rahwan, A Chrobak, S Branzei, M Wooldridge, N Jennings (2014). "*Implementation and Computation of a Value for Generalized Characteristic Function Games*." **ACM Transactions on Economics and Computation**. 2, 4. Pages 16:1--16:35. Publisher: ACM (Association for Computing Machinery).

P28. [author]: O Skibski, T Michalak, T Rahwan, M Wooldridge (2014). "*Algorithms for the Shapley and Myerson values in Graph-Restricted Games*." In Proceedings of the 13th International Conference on **Autonomous Agents and Multi-Agent Systems (AAMAS)** in Paris. 197-204. Acceptance rate 24%

P27. [mentor]: K Pawlowski, K Kurach, K Svensson, S Ramchurn, T Michalak, T Rahwan (2014). "*Coalition Structure Generation with the Graphics Processing Unit*." In Proceedings of the 13th International Conference on **Autonomous Agents and Multi-Agent Systems (AAMAS)** in Paris, France. Pages 293-300. Acceptance rate 24%.

P26. [lead]: T Rahwan, T-D Nguyen, T Michalak, M Polukarov, M Croitoru, N Jennings (2013). "*Coalitional Games via Network Flows*." In Proceedings of the 23rd **International Joint Conference on Artificial Intelligence (IJCAI)** in Beijing, China. Acceptance rate 28%.

P25. [author]: T Michalak, T Rahwan, P Szczepanski, O Skibski, R Narayanam, M Wooldridge, N Jennings (2013). "*Computational Analysis of Connectivity Games with Applications to the Investigation of Terrorist Networks*." In Proceedings of the 23rd **International Joint Conference on Artificial Intelligence (IJCAI)** in Beijing, China. Acceptance rate 28%.

P24. [author]: L Tran-Thanh, T-D Nguyen, T Rahwan, A Rogers, N Jennings (2013). "*An Efficient Vector-based Representation for Coalitional Games*." In Proceedings of the 23rd **International Joint Conference on Artificial Intelligence (IJCAI)** in Beijing, China. Acceptance rate 28%.

P23. [author]: S Brânzei, T Michalak, T Rahwan, K Larson, N Jennings (2013). "*Matchings with Externalities and Attitudes*." In Proceedings of the 12th International Conference on **Autonomous Agents and Multi-Agent Systems (AAMAS)** in Minnesota, USA. Acceptance rate 23%.

P22. [author]: S Ramchurn, M Osborne, O Parson, S Maleki, T Rahwan, T Huynh, S Reece, M Alam, J Fischer, G Hines, E Costanza, L Moreau, T Rodden (2013). "*AgentSwitch: Smart Energy Tariff Selection using Agent Technology*." In Proceedings of the 12th International Conference on **Autonomous Agents and Multi-Agent Systems (AAMAS)** in Minnesota. Acceptance rate 23%.

P21. [lead]: T Rahwan, T Michalak, M Wooldridge, N Jennings (2012). "*Anytime Coalition Structure Generation in Multi-Agent Systems with Positive or Negative Externalities*." **Artificial Intelligence (AIJ)**. 186, Pages 95--122. Publisher: Elsevier.

P20. [author]: E Elkind, T Rahwan, N Jennings (2012). "*Computational Coalition Formation*." Chapter 8, **Multiagent Systems (2nd Edition)**. Pages 329—380. Publisher: The MIT press.

P19. [lead]: T Rahwan, T Michalak, N Jennings (2012). "*A Hybrid Algorithm for Coalition Structure Generation*." In Proceedings of the 26th **AAAI Conference on Artificial Intelligence**, in Toronto, Canada. Acceptance rate 26%.

P18. [mentor]: P Szczepanski, T Michalak, T Rahwan (2012). "*A New Approach to Betweenness Centrality based on the Shapley Value*." In Proceedings of the 11th International Conference on **Autonomous Agents and Multi-Agent Systems (AAMAS)** in Barcelona, Spain. Acceptance rate 20%.

P17. [author]: G Hines, T Rahwan, N Jennings (2012). "*An Anytime Algorithm for Finding the ϵ–Core in Nontransferable Utility Coalitional Games*." In Proceedings of the 20th **European Conference on Artificial Intelligence (ECAI)** in Montpellier, France. Acceptance rate 28%.

P16. [lead]: T Rahwan, T Michalak, N Jennings (2011). "*Minimum Search to Establish Worst-Case Guarantees in Coalition Structure Generation*." In Proceedings of the 22nd **International Joint Conference on Artificial Intelligence (IJCAI)** in Barcelona, Spain. Acceptance rate 17%.

P15. [lead]: T Rahwan, T Michalak, E Elkind, P Faliszewski, J Sroka, M Wooldridge, N Jennings (2011). "*Constrained Coalition Formation*." In Proceedings of the 25th **AAAI Conference on Artificial Intelligence**, in San Francisco, USA. Acceptance rate 25%.

P14. [author]: T Michalak, T Rahwan, D Marciniak, M Szamotulski, N Jennings (2010). "*Computational Aspects of Extending the Shapley Value to Coalitional Games with Externalities*." In Proceedings of the 19th **European Conference on Artificial Intelligence (ECAI)** in Lisbon. Acceptance rate 20%.

P13. [author]: T Michalak, J Sroka, T Rahwan, M Wooldridge, P McBurney, N Jennings (2010). "*A distributed algorithm for anytime coalition structure generation*." In Proceedings of the 9th International Conference on **Autonomous Agents and Multi-Agent Systems (AAMAS)** in Toronto, Canada, 1007-1014. Acceptance rate 24%.

P12. [author]: T Michalak, D Marciniak, M Szamotulski, T Rahwan, M Wooldridge, P McBurney, N Jennings (2010). "*A logic-based representation for coalitional games with externalities*." In Proceedings of the 9th International Conference on **Autonomous Agents and Multi-Agent Systems (AAMAS)** in Toronto, Canada, 125-132. Acceptance rate 24%.

P11. [lead]: T Rahwan, S Ramchurn, A Giovannucci, N Jennings (2009). "*An Anytime Algorithm for Optimal Coalition Structure Generation*." **Journal of Artificial Intelligence Research (JAIR)**. 34, Pages 521--567. Publisher: AAAI (Association for the Advancement of Artificial Intelligence).

P10. [lead]: T Rahwan, T Michalak, N Jennings, M Wooldridge, P McBurney (2009). "*Coalition Structure Generation in Multi-Agent Systems with Positive and Negative Externalities*." In Proceedings of the 21st **International Joint Conference on Artificial Intelligence (IJCAI)** in Pasadena, USA. Pages 257--263. Acceptance rate 26%.

P9. [author]: T Michalak, T Rahwan, J Sroka, A Dowell, M Wooldridge, P McBurney, N Jennings (2009). "*On Representing Coalitional Games with Externalities*." In Proceedings of the 10th **ACM conference on Electronic Commerce (ACM-EC)** in Stanford, USA. Pages 11--20. Acceptance rate 25%.

P8. [lead]: T Rahwan, N Jennings (2008). "*Coalition Structure Generation: Dynamic Programming Meets Anytime Optimization*." In Proceedings of the 23rd **AAAI Conference on Artificial Intelligence**, in Chicago, USA. Pages 156--161. Acceptance rate 24%.

P7. [lead]: T Rahwan, N Jennings (2008). "*An Improved Dynamic Programming Algorithm for Coalition Structure Generation*." In Proceedings of the 7th international conference on **Autonomous Agents and Multi-Agent Systems (AAMAS)** in Estoril, Portugal. Pages 1417--1420.

P6. [lead]: T Rahwan (2007). "*Algorithms for Coalition Formation in Multi-Agent Systems*." Ph.D. Thesis. Published by the **British Informatics Society**, ISBN: 978-1906124144. *Winner of the British Computer Society's Distinguished Dissertation award, which annually recognizes the most outstanding Ph.D. thesis in the UK in Computer Science*.

P5. [lead]: T Rahwan, N Jennings (2007). "*An Algorithm for Distributing Coalitional Value Calculations among Cooperating Agents*." **Artificial Intelligence (AIJ)**. 171 (8-9). Pages 535--567. Publisher: Elsevier.

P4. [lead]: T Rahwan, S Ramchurn, A Giovannucci, V D Dang, N Jennings (2007). "*Anytime Optimal Coalition Structure Generation*." In Proceedings of the 22nd **AAAI Conference on Artificial Intelligence**, in Vancouver, Canada. Pages 1184--1190. Acceptance rate 27%.

P3. [lead]: T Rahwan, S Ramchurn, V Dang, N Jennings (2007) "*Near-Optimal Anytime Coalition Structure Generation*." In Proceedings of the 20th **International Joint Conference on Artificial Intelligence (IJCAI)** in Hyderabad, India. Pages 2365--2371. Acceptance rate 16%.

P2. [lead]: T Rahwan, N Jennings (2005). "*Distributing Coalitional Value Calculations among Cooperating Agents*." In Proceedings of the 20th **AAAI Conference on Artificial Intelligence**, in Pittsburgh, USA. Pages 152--157. Acceptance rate 18%.

P1. [lead]: T Rahwan, T Rahwan, I Rahwan, R Ashri (2004). "*Agent-based Support for Mobile Users Using AgentSpeak(L)*." In volume 3030 of **Agent-Oriented Information Systems**, Springer-Verlag, Berlin, Germany. Pages 45--60.

Selected Media Coverage

- More than 40% of postdocs leave academia, study reveals, **Nature** | Jan 21, 2025
- Postdoc publications 'more important for career than PhD', **Times Higher Education** | 2025
- Postdocs Who Publish Hit Papers Are More Likely to Stay in Academia, **The Scientist** | 2025
- More Than 40% of Postdocs Don't Stay in Academia, **Inside Higher Ed** | Jan 23, 2025
- Publishing during postdoc years tied to later academic career success, **Phys.org** | Jan 21, 2025
- Static pay, shrinking prospects fuel neuroscience postdoc decline, **the Transmitter** | 31 Jan, 2025
- Postdoc Publications Linked to Subsequent Academic Success, **American Physical Society** | 2025
- TikTok's algorithm exhibited pro-Republican bias during 2024 presidential race, **PsyPost** | 2025
- Wie Tiktok im US-Wahlkampf die Republikaner unterstützt haben soll, **DERSTANDARD** | 2025
- Vendor offering citations for purchase is latest bad actor in scholarly publishing, **Science** | 2024
- The citation black market: schemes selling fake references alarm scientists, **Nature** | 2024
- How easy is it to fudge your scientific rank? Meet Larry, the world's most cited cat, **Science** | 2024
- Concern over high self-publication rates among journal editors, **Times Higher Education** | 2023
- Largest-ever study of journal editors highlights 'self-publication' and gender gap, **Nature** | 2023
- ChatGPT Can Get Good Grades. What Should Educators Do About It? **Scientific American** | 2023
- Counterintuitive Bias in YouTube's Algorithm, **American Council on Science & Health** | 2023
- YouTube's recommendation system exhibits left-leaning bias, **PsyPost** | Sep 15, 2023
- Students 'double cheat' to hide AI in their answers, **The Times** | Aug 24, 2023
- ChatGPT gets better marks than students in some university courses **New Scientist** | Aug 24, 2023
- 記述式設問に対するChatGPTの答案は大学生の答案を上回ることもある, **Nature Asia** | 2023
- AI can write better university assignments than students, **The Independent** | Aug 25, 2023
- "تشات جي بي تي" يشعل الجدل بين الطلاب والمعلمين, **Nature Middle East** | Sep 5, 2023
- AI models 'achieve higher university grades than students', **The National** | Aug 24, 2023
- AI can achieve better grades than university students with assignments on a range of subjects, **The Daily Mail** | Aug 25, 2023
- ChatGPT can outperform university students at writing assignments, **EurekAlert!** | Aug 24, 2023
- Can ChatGPT Rival University Students in Academic Performance? **Neuroscience News** | 2023
- ChatGPT can outperform university students at writing assignments, study finds, **Phys.org** | 2023

- Groundbreaking psychology research sheds light on the trust dynamics of human-machine collectives, **PsyPost** | June 20, 2023
- Racial inequalities in journals highlighted in giant study, **Nature** | Apr 28, 2023
- Non-white scientists spend more time under review, **University World News** | April 4, 2023
- Journals publish disproportionate number of papers by their editors, **New Scientist** | 2023
- Self-publishing is common among academic-journal editors, **Nature News & Views** | 2023
- Journal editors (mainly men) often self-publish, **University World News** | January 28, 2023
- Examining equality among editors, **Nature Middle East** | January 17, 2023
- Lightening the load to narrow the digital divide, **Nature Middle East** | January 13, 2023
- Racial gap impedes publishing by non-white scientists, **Science & Development Network** | 2023
- Racial Inequity in Key Publication Metrics, **American Physical Society** | Mar 30, 2023
- Researchers find persistent gender gap among scientific editors, **Khaleej Times** | 2023
- Significant inequalities affect non-white researchers when publishing their work, **Physics World**, March 28, 2023
- Analysis by NYUAD researchers offers new insights into causes of persistent inequities affecting non-white scientists and their research, **EurekAlert!** | March 21, 2023
- New analysis offers insights into causes of persistent inequities affecting non-white scientists and their research, **Phys.org** | March 21, 2023
- NYUAD researchers find persistent gender gap among scientific editors, **EurekAlert!** | 2023
- Ethics, efficiency, and artificial intelligence, **Boston Globe** | January 30, 2020
- People Don't Learn to Trust Bots. **Scientific American** | February 1, 2020
- Weaponised Disinformation Could Unleash City-Wide Blackouts, **Science Alert** | August 22, 2020
- Hackers could take down the power grid, **Fast Company** | August 21, 2020
- Human bias burdens bots. **Nature Middle East** | November 22, 2019
- Can Artificial Intelligence Increase Our Morality? **Psychology Today** | December 9, 2019
- The UAE minister seeking to avert an AI apocalypse. **WIRED** | December 29, 2019
- Robots can work better with concealed identity: Survey. **Khaleej Times** | November 15, 2019
- Bots Outperform Humans if They Impersonate Us. **Scientific American** | December 11, 2019
- How do machines think? **New Statesman** | December 11, 2019
- Cómo engañar al algoritmo y evitar que Facebook sepa a quién conoces. **El País** | Sep 19, 2019
- These labs are remarkably diverse — here's why they're winning at science. **Nature** | June 6, 2018
- Ethnic diversity boosts scientific impact. **Physics World** | March 21, 2018
- How to Hide Within a Social Network. **Motherboard** | January 30, 2018

Awards

- **Recognition at IC2S2-2024**
  - I was invited as a keynote speaker at IC2S2-2024 (the Int. Conference on Computational Social Science), which has emerged as the dominant conference in the field.
  - We also received the **Best Parallel Talk Award** for our paper: "*Perception, performance, and detectability of conversational artificial intelligence across 32 university courses*" as well as the **Best Poster Award** for our paper "*Big Tech Dominance Despite Global Mistrust.*"
- **AI's 10 to Watch**
  - I was selected by the IEEE Computer Society as one of *AI's 10 to Watch*. The list is published every two years by IEEE Intelligent Systems, in recognition of the ***10 most promising, young AI scientists in the world***; the winners are described as the "*stars who promise to be the leaders of the field*."
- **Distinguished Dissertation Award**
  - I received the British Computer Society's *Distinguished Dissertation Award*, which annually recognizes ***the most outstanding Ph.D. thesis in the UK in computer science***.
- **Dean Award for Early Career Researchers**
  - I was selected by the Faculty of Physical Sciences and Engineering (at the University of Southampton, UK) as a recipient of the "*Dean Awards for Early Career Researchers.*" I received the award under the *"Scientific Research & Publications"* category.
- **Overseas Research Scholarship (ORS) for a Ph.D.**
  - Awarded by the School of Electronics & Computer Science at the University of Southampton in the United Kingdom. The school was ranked 2nd in the UK for the quality of its research according to the *2008 Research Assessment Exercise (RAE).*
- **Presidential Award for Academic Achievement**
  - Convened by the Syrian Ministry of Higher Education and awarded to *the student ranked 1st in each department* at Syrian universities.

Invited Talks

- **June 2025: HEC Paris Business School, France**
  - Invited by Xitong Li, Professor of Information Systems at HEC Paris to give a talk about my research at the Data Science and AI Lab at NYU Abu Dhabi.
- **July 2024: IC2S2, Philadelphia, USA**
  - Invited to give a keynote at IC2S2-2024 (the International Conference on Computational Social Science). This is the dominant conference falling at the intersection of social and computational science. My talk was titled: "*A Global Perspective of Scientists and Editors.*"
- **July 2023: NetSci, Copenhagen, Denmark**
  - Invited to participate as a keynote speaker at the Network Inequality satellite at NetSci-2023. The talk was titled: "*Global Inequality in the Academy and the World Wide Web*."

- **October 2022: MIT, Boston, USA**
  - Invited by Prof. Alex 'Sandy' Pentland, director of MIT Connection Science, to give a talk titled: "*A Global Perspective of Scientific Publications*."
- **October 2022: Yale, New Haven, USA**
  - Invited by Prof. Nicholas Christakis, director of the Human Nature Lab at Yale University, to give a talk titled: "*Hiding from AI*."
- **March 2022: Dubai Expo, UAE**
  - I gave an invited talk at the conference "Humanities and the Rise of AI - Implications of Cultural and Societal Engineering" at Luxemburg Pavilion, Expo 2020. My talk was titled: "*Cooperating with Machines*."
- **August 2021: Eurasia Summit, Tokyo, Japan**
  - I gave an invited talk at the Eurasian Summit for Models of Society, 2021. The talk I gave was under the title: "*Hiding Communities and Relationships in a Social Network*."
- **August 2015: Yokohama, Japan**
  - I gave an invited talk at the International Workshop on Market Design Technologies for Sustainable Development, at Yokohama, Japan, to give a talk titled: "*Measuring Synergy in Coalitions*."

Research Grants

Project title: "*Developing Coalition Formation Algorithms and Solution Concepts, with Applications to Virtual Power Plants.*"

- **Duration:** Sep-2014 till Sep-2016.
- **Budget**: $280,000.
- **My role:** Principal Investigator.
- **Sponsor:** Masdar Institute of Science and Technology.

Project title: "*Strategic Social Network Analysis to Enhance Security and Privacy.*"

- **Duration:** July-2018 till June-2021.
- **Budget:** $670,000.
- **My role:** Principal Investigator.
- **Sponsor:** Khalifa University of Science and Technology.

Teaching

2025
- Spring: **Data Structures**, taught at NYU Abu Dhabi.
- Fall: **Computational Social Science**, taught at NYU Abu Dhabi.

2024
- Spring: **Computational Social Science**, taught at NYU Abu Dhabi.
- Fall: **Computational Social Science**, taught at NYU Abu Dhabi.

2023
- Spring: **Data Structures**, taught at NYU Abu Dhabi.
- Fall: **Computational Social Science**, taught at NYU Abu Dhabi.

2022
- Spring: **Data Structures**, taught at NYU Abu Dhabi.

- Fall: **Data Structures**, taught at NYU Abu Dhabi.

2021
- Spring: **Computational Social Science**, taught at NYU Abu Dhabi.
- Fall: **Computational Social Science**, taught at NYU Abu Dhabi.

2020
- Spring: **Computational Social Science**, taught at NYU Abu Dhabi.
- Fall: **Data Structures**, taught at NYU Abu Dhabi.

2019
- Fall: **Data Structures**, taught at NYU Abu Dhabi.

2018
- Spring: **Machine Learning**, taught at Khalifa University.
- Spring: **Multimodal Data mining**, taught at Khalifa University.
- Spring: **Sustainable Energy**, taught at Khalifa University.

2017
- Spring: **Machine Learning**, taught at Khalifa University.
- Spring: **Topics in Computational Social Science**, at at Khalifa University.

2016
- Spring: **Data Mining**, taught at Khalifa University.
- Fall: **Multimodal Data mining**, taught at Khalifa University.
- Fall: **Sustainable Energy**, taught at Khalifa University.

2015
- Spring: **Topics in Computational Social Science**, at Khalifa University.
- Fall: **Sustainable Energy**, taught at Khalifa University.
- Fall: **Multimodal Data mining**, taught at Khalifa University.

2014
- Spring: **Topics in Computational Social Science** at Khalifa University.
- Spring: **Sustainable Energy**, taught at Khalifa University.
- Fall: **Sustainable Energy**, taught at Khalifa University.

Student Supervision

Ph.D. students

1. Fengyan Liu.
   - Ph.D. student, Computer Science department, New York University, USA.
   - My role: Committee chair.
   - Expected graduation year: 2024.
   - Notes: Fengyan's findings were published in prestigious journals including **Nature Human Behaviour**, **Nature Communications**, and **PNAS** (Proceedings of the National Academy of Sciences). Fengyuan's findings were covered by media outlets, including: Nature, Times Higher Education, Nature Middle East, New Scientist, Physics World, University World News, Khaleej Times, Nature News and Views, EurekAlert, American Physical Society, University World News, and Science & Development Network. Upon graduation, Fengyuan joined Princeton University.
2. Bedoor AlShebli
   - Ph.D. student, Computer Science department, Masdar Institute, Khalifa University, UAE.
   - My role: Secondary advisor (with Dr. Wei Lee Woon).
   - Graduation year: 2018.
   - Notes: Bedoor's Ph.D. findings were published in **Nature Communications**, and received media coverage from Nature News and Physics World. Upon her graduation, Bedoor joined New York University Abu Dhabi as an Assistant Professor of Computational Social Science.
3. Fatimah Ishowo-Oloko

- Ph.D. student, Computer Science department, Masdar Institute, Khalifa University, UAE.
- My role: Committee chair.
- Graduation year: 2017.
- Notes: Fatimah's findings were published in **Nature Machine Intelligence**, and made the cover of the November issue, 2019. The findings received coverage from: Boston Globe, Nature Middle East, Khaleej Times, Scientific American, Psychology Today, WIRED, and New Statesman.

4. Mayada Oudah
    - Ph.D. student, Computer Science department, Masdar Institute, Khalifa University, UAE.
    - My role: Committee chair.
    - Graduation year: 2017.
    - Notes: Upon her graduation, Mayada joined the Social Science Experimental Lab at New York University Abu Dhabi.
5. Sasan Maleki
    - Ph.D. student, School of Electronics & Computer Science, University of Southampton, UK.
    - My role: Secondary advisor (with Prof. Alex Rogers).
    - Graduation year: 2015

MS.C. students

1. Chien Chen. Computer Science department, Masdar Institute, Khalifa University.
2. Jwen Fai Low. Computer Science department, Masdar Institute, Khalifa University.
3. Maryam Al Mehrezi. Computer Science department, Masdar Institute, Khalifa University.
4. Sarah Bamatraf. Computer Science department, Masdar Institute, Khalifa University.
5. Pai-Ju Chang. Computer Science department, Masdar Institute, Khalifa University.

Capstone Projects (main advisor)

Project 20:
- **Title:** Neutralizing the Narrative AI-Powered Debiasing of Online News Articles
- **Student:** Kevin Chu
- **Duration:** from Feb 2024 to May 2025

Project 19:
- **Title:** From Pixels to Representations: Linking Human-Face Preview Effects to Variational Autoencoder Codes
- **Student:** Tarek Nabih
- **Duration:** from Feb 2024 to May 2025

Project 18:
- **Title:** Gender Diversity on Editorial Boards
- **Student:** Zachary Raye
- **Duration:** from Feb 2024 to Dec 2024

Project 17:
- **Title:** Interpretable Machine Learning Model for Predicting Activist Investment Targets
- **Student:** Minwu Kim
- **Duration:** from Feb 2023 to May 2024

Project 16:
- **Title:** Principal-Agent Relations with Bot Produced Contracts
- **Student:** Min Jie Kim
- **Duration:** from Feb 2023 to May 2024

Project 15:
- **Title:** The Influence of Agency on Social and Fairness Preferences in Human-Machine Joint Decision

- **Student:** Krises Maskey
- **Duration:** from Feb 2023 to May 2024

Project 14:

- **Title:** Paraphrasing Detection in Scientific Literature
- **Student:** Dixit Timilsina
- **Duration:** from Feb 2023 to Dec 2023

Project 13:

- **Title:** Anomaly Detection Using AutoEncoders: The Advanced Persistent Threats Case.
- **Student:** Ngoc Nhu Hoang.
- **Duration:** from Feb 2022 to May 2023.

Project 12:

- **Title:** Investigating the Relationship between Citations and the Contributions of Algorithm Solvers.
- **Student:** Desmond Ofori Atta.
- **Duration:** from Feb 2022 to May 2023.

Project 11:

- **Title:** Ethnic Diversity in Editorial Boards.
- **Student:** Mathilde Simoni.
- **Duration:** from Feb 2022 to May 2023.

Project 10:

- **Title:** The Impact of Becoming an Editor.
- **Student:** Vee Nis Ling.
- **Duration:** from Feb 2022 to May 2023.

Project 9:

- **Title:** Revisiting YouTube Algorithm's Allegation of User Radicalization.
- **Student:** Sangjin David Lee.
- **Duration:** from Feb 2021 to May 2022.

Project 8:

- **Title:** Protecting Sensitive Information from Probing AI.
- **Student:** Nour Abdelmoneim and Jakub Niewiadomski.
- **Duration:** from Feb 2021 to May 2022.

Project 7:

- **Title:** Ageism in Academia: The Effects of Mean Academic Age of Teams.
- **Student:** Andriy Lunin.
- **Duration:** from Feb 2021 to May 2022.

Project 6:

- **Title:** Revisiting the Uncanny Valley using Generative Adversarial Networks.
- **Student:** Abdullah Zameek and Navya Suri.
- **Duration:** from Feb 2020 to May 2021.

Project 5:

- **Title:** Extending the Dollar Auction: The Power of AI in Shaping Conflict.
- **Student:** Domnica Dzitac.
- **Duration:** from Feb 2020 to May 2021.

Project 4:

- **Title:** Public Cooperation in a Human-Bot Society.
- **Student:** Julie Xi-Xuan Liu.
- **Duration:** from Feb 2020 to May 2021.

Project 3:

- **Title:** The Effect of Air Pollution and Republican Vote share on Police Performance and Racial Bias.
- **Student:** Teona Ristova.
- **Duration:** from Feb 2019 to May 2020.

Project 2:

- **Title:** AI Overcoming Human Bias: Eliciting Bias in the Public Goods Game.
- **Student:** Russell Coke and Robert Gordon.
- **Duration:** from Feb 2019 to May 2020.

Project 1:

- **Title:** Temptation of Citation: Quantifying Editor's Potential Misconduct in Academic Journals.
- **Student:** Fengyuan Liu.
- **Duration:** from Feb 2019 to May 2020.

Internal Service

- Chair of the **Visiting Professor Search Committee**, from Dec-2025 to Feb-2026.
- Chair of the **Instructor Search Committee**, from Aug-2024 to Sep-2024.
- **Ph.D. Programme Coordinator**, from Sept-2019 to May-2024.
- Chair of the **Visiting Professor Search Committee**, from Jan-2022 to May-2023.
- Chair of the **Lecturer Search Committee**, from Oct-2019 to May-2021.
- Head of the **Undergraduate Curriculum Committee**, from Nov-2017 to Nov-2018. Responsible for developing curricula and policies for undergraduate studies.
- Member of the **Graduate Selection Committee** for MSc students in the Department of Computer Science, from May-2017 to Nov-2018. Responsibilities included evaluating every MSc applicant to the Computing and Information Science programme.
- Member of the **Faculty Recruitment and Advancement Committee**, from Nov-2015 to Nov-2018. Responsibilities included evaluating every applicant to a faculty position in the university.
- Member of the **Ph.D. Admissions Committee** from Feb-2014 to Feb-2016. Responsibilities included evaluating every Ph.D. applicant to the entire university on a weekly basis.

Community Service

Tenure Evaluation:

- May-2024: I served as a tenure letter writer for an assistant prof. at **the University of Michigan**, USA.

Journal Editor:

- Editor of Artificial Intelligence Journal (**AIJ**), January 1st, 2023 to December 31, 2026.

Reviewer:

1. Reviewer: ***Nature***, Nature Publishing Group (2025).
2. Reviewer: ***Nature Communications***, Nature Publishing Group (2022, 2025).
3. Reviewer: ***Nature Human Behaviour***, Nature Publishing Group (2018, 2023).
4. Reviewer: ***Nature Machine Intelligence***, Nature Publishing Group (2020, 2023).

5. Reviewer: ***Nature Neuroscience***, Nature Publishing Group (2025).
6. Reviewer: ***Science Advances***, American Association for the Advancement of Science (2021).
7. Reviewer: ***Communications Psychology***, Nature Publishing Group (2023).
8. Reviewer: **IC2S2**---International Conference on Computational Social Science (2024, 2025).
9. Reviewer: *International World Wide Web (**WWW**) Conference* (2021, 2026).
10. PC member: ***ICSSI***---International Conference on Science of Science and Innovation (2023).
11. Reviewer: ***UAE GSRC***---*UAE Graduate Students Research Conference* (2022).
12. Reviewer: *Artificial Intelligence (**AIJ**),* Elsevier (2008, 2010, 2011, 2012, 2013, 2014, 2017, 2018).
13. Reviewer: ***Constraints***, Springer (2018).
14. Reviewer: *Journal of Autonomous Agents and Multi-Agent Systems (**JAAMAS**)*, Springer (2007, 2009, 2010, 2014, 2016).
15. Reviewer: ***European Journal of Operational Research***, Elsevier (2016).
16. Reviewer: ***ACM Computing Surveys***, published by ACM (2014).
17. Reviewer: *Journal of Artificial Intelligence Research (**JAIR**),* published by AAAI (2013).
18. Reviewer: *Engineering Applications of Artificial Intelligence (**EAAI**),* Elsevier (2012).
19. Reviewer: ***The Knowledge Engineering Review***, Cambridge University Press (2011).
20. Reviewer: *IEEE International Conference on **Intelligent Robots and Systems** (IROS)* (2011).
21. Reviewer: *The international workshop on Computational Social Choice (**ComSoc**)* (2008).
22. PC member: *The **AAAI** conference on Artificial Intelligence* (2010, 2014, 2017).
23. PC member: *The International Joint Conference on Artificial Intelligence (**IJCAI**)* (2015, 2025).
24. PC member: the *European Conference on Artificial Intelligence (**ECAI**)* (2012, 2014).
25. PC member: *IEEE International Conference on **Robotics and Automation** (ICRA)* (2012).
26. PC member: *Int. conference on Autonomous Agents and Multi-Agent Systems (**AAMAS**)* (2009, 2010).
27. PC member: *Cooperative Games and Multiagent Systems (**CoopMAS**)* (2010, 2014, 2015, 2017).
28. PC member: *Optimisation in Multi-Agent Systems (**OptMas**)* (2009, 2010, 2012, 2014, 2015).

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