

William Macke

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Education

- 2015-2019 **B.Sc. Computer Science**, *University of Tulsa*, Tulsa, OK.
GPA: 4.0/4.0
- 2019-Present **Ph.D. Computer Science (Artificial Intelligence and Machine Learning)**,
University of Texas at Austin, Austin, Tx.
GPA: 4.0

Research Interests

Multi-Agent Systems, Ad Hoc Teamwork, Machine/Deep Learning, Online Matching

Research Experience

- Publications Nathaniel Beckemeyer, **William Macke**, and Sandip Sen, Stable Configurations with (Meta)Punishing Agents. MABS 2017
- Jon Bolin, Chad Crawford, **William Macke**, Sam Beckman and Sandip Sen, Gesture-Based Control of Autonomous UAVs, AAMAS 2017
- Zhuoshu Li, Kelsey Lieberman*, **William Macke***, Sofia Carrillo, Chien-Ju Ho, Jason Wellen, and Sanmay Das. Incorporating compatible pairs in kidney exchange: A dynamic weighted matching model. In Proceedings of the 2019 ACM Conference on Economics and Computation , EC '19, pages 349–367, New York, NY, USA, 2019. ACM
- * Equal Contribution
- Reuth Mirsky, **William Macke**, Andy Wang, Harel Yedidsion, and Peter Stone. A penny for your thoughts: The value of communication in ad hoc teamwork. IJCAI 2020.
- Garret Bingham*, **William Macke***, Risto Miikkulainen. Learning with Evolved Activation Functions, GECCO 2020
- * Equal Contribution
- Research Tulsa Undergraduate Research Challenge (Summer 2016/2017)
- Assistantships NSF Research for Undergraduates Big Data Analytics Site at Washington University in Saint Louis (Summer 2018)
- Ongoing Communication in Ad Hoc Teamwork, Multiagent Reinforcement Learning for Traffic Control

Leadership

- ICPC Team Leader of Intercollegiate Programming Competition (ICPC) club for the Association of Computing Machinery (ACM) at the University of Tulsa.

Coding Projects

- KMeans <https://github.com/williammacke/KMeans>

Template <https://github.com/williammacke/TemplateFlow>
Flow

Skills and Technologies

Languages C/C++, Java, Python, C#, L^AT_EX, Bash, R, Haskell
Libraries NumPy, TensorFlow, OpenCV, Eigen
Operating GNU/Linux, Windows
Systems

Honors and Awards

Summa Cum Laude Achieved 4.0 GPA every semester at the University of Tulsa
MAA Received Second Place Overall in 2016 MAA Oklahoma-Arkansas Regional
Presidential Merit-based scholarship awarded by the University of Tulsa covering full tuition and
Scholarship living expenses
MABS Selected as most visionary paper in the 2017 workshop for Multi-Agent Based
Simulation at the conference for Autonomous Agents and Multi-Agent Systems
NSF Selected to present research from NSF REU site at Washington University in Saint
Symposium Louis for the NSF REU Symposium