William Macke

+1 (314) 740 1820
william-macke@utulsa.edu

Education

2015-2019 **B.Sc. Computer Science**, *University of Tulsa*, Tulsa, OK.
GPA: 4.0/4.0

Research Interests

Multi-Agent Systems, Robotics, 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

Preprints Kelsey Lieberman*, **William Macke***, Zhuoshu Li, Sanmay Das, and Chien-Ju Ho, An online primal-dual algorithm for hybrid static-dynamic matching, and an application to kidney exchange. In submission to the 32nd AAAI Conference on Artificial Intelligence, 2018.

* Equal contribution

Research Assistantships Tulsa Undergraduate Research Challenge (Summer 2016/2017)

NSF Research for Undergraduates Big Data Analytics Site at Washington University in Saint Louis (Summer 2018)

Ongoing Algorithmic and Learning approaches to Herding/Flocking.

Leadership

ICPC Team leader 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

Game https://github.com/williammacke/GameProgrammingProject2

Skills and Technologies

Languages C/C++, Java, Python, C#, LaTeX, Bash, R, Haskell

Libraries NumPy, TensorFlow, OpenCV, Eigen

Operating Systems GNU/Linux, Windows

Honors and Awards

President's Honor Roll Achieved 4.0 GPA every semester thus far at the University of Tulsa

MAA	Received Second Place Overall in 2016 MAA Oklahoma-Arkansas Regional
Presidential Scholarship	Merit-based scholarship awarded by the University of Tulsa covering full tuition and 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 Symposium	Selected to present research from NSF REU site at Washington University in Saint Louis for the National NSF REU Symposium