Brendon J. **Boldt**

Machine Learning Researcher · Philosopher

Marist College · New York

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Education

Marist College

Poughkeepsie, New York

B.S. in Computer Science, B.A. in Philosophy — *Aug. 2014 - May 2018*

- Minors: Mathematics, Cognitive Science, Information Technology, Information Systems
- 3.96 GPA; Honors Program
- Goldman-Sachs Duet Scholarship, Marist College; 4-year full tuition merit based for CS

Technical Experience

Publications

- **Boldt B.** (2017) Using LSTMs to Model the Java Programming Language. In: Lintas A., Rovetta S., Verschure P., Villa A. (eds) Artificial Neural Networks and Machine Learning – ICANN 2017. ICANN 2017. Lecture Notes in Computer Science, vol 10614. Springer, Cham. `https://doi.org/10.1007/978-3-319-68612-7_31`
- Coleman R., **Boldt B.** (2017) Aesthetics Versus Entropy in Source Code. In: Arabnia H., Deligiannidis L., Tinetti F. (eds) Proceedings of the 2017 International Conference on Software Engineering Research and Practice. ISBN: 1-60132-468-5. CSREA Press. `https://csce.ucmss.com/cr/books/2017/LFS/CSREA2017/SER3597.pdf`

Natural Language and Robotics Researcher

Kaierslautern, Germany

Max Planck Institute for Software Systems — *May 2017 - Aug. 2017*

- DAAD RISE Scholar (competitive scholarship for international students doing research in Germany)
- Designed and implemented a semantic parsing system to learn how to control a virtual robot using natural language
- Built system based of SEMPRE semantic parser; designed simple programming language

Machine Learning Researcher

Poughkeepsie, New York

Marist College, Honors Program — *Aug. 2016 - PRESENT*

- Independently conducted research
- Wrote paper on using TensorFlow LSTMs to model the Java programming language
- Currently researching using word embeddings to augment semantic parsing

Machine Learning REU Student

Loudonville, New York

Siena College Institute for Artificial Intelligence — *May 2016 - Jul. 2016*

- Research using machine learning to detect when people are cheating on an IAT (a test measuring implicit bias)
- Used TensorFlow, PHP, MySQL, JavaScript, Weka

Software Development Research Assistant

Poughkeepsie, New York

Marist College, School of Mathematics and Computer Science — *Oct. 2015 - Nov. 2016*

- Researched source code aesthetics and readability using Scala and ANTLR

Software Development Engineer Intern

Pleasanton, California

Workday Inc. — *May 2014 - Aug. 2014*

Other Experience

Free Will and Computing Philosopher

Poughkeepsie, New York

Marist College, Department of Philosophy and Religious Studies — *Sep. 2015 - Mar. 2016*

- Addressed contemporary theories of free will in terms of their applicability to computers
- Concluded that computing models (like neural nets) can display the necessary decision making complexity to qualify for free will
- Gave presentations at West Virginia University, SUNY New Paltz, and Marist College
- Presented poster at NCHC conference in Seattle and at the Marist College Presidential Inaguration research forum