

TYLER MCDONNELL

Machine Learning Researcher

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EXPERIENCE

Data Scientist

SparkCognition

R&D: Automatic Machine Learning, Neuroevolution

<https://www.sparkcognition.com/darwin/>

📅 September 2017 – Present 📍 Austin, TX

Research Assistant

The University of Texas at Austin

Researched cost-efficient data collection techniques and supervised and unsupervised learning under sparse data for the information retrieval domain.

📅 August 2016 – May 2017 📍 Austin, TX

Engineer

Ketra

Helped architect pilot product infrastructure for an innovative IoT lighting system: wireless networking R&D; design of RTOS flash file system and event scheduler; design of wireless distributed content playback system.

📅 May 2013 – August 2016 📍 Austin, TX

Research Assistant

The University of Texas at Austin

Analyzed Android developer behavior within open-source GitHub repositories. Established links between rapid API change and increased bugs; OS fragmentation; and decreased developer adoption.

📅 April 2012 – July 2013 📍 Austin, TX

Machine Learning Engineer

TasteBud

Blueprinted and prototyped user-client affinity models and post-cold start collaborative filtering approaches for a reverse-bidding application.

📅 November 2012 – May 2013 📍 Austin, TX

Engineer

Intel

Developed post-silicon validation infrastructure for the first generation of Intel system-on-a-chips.

📅 May 2012 – September 2012 📍 Austin, TX

ABOUT

A results driven researcher in the machine learning and information retrieval domains. My recent work focuses on automatic machine learning and the practical evolution of neural networks.

INTERESTS

Automatic Machine Learning

Neuroevolution

Information Retrieval

Reinforcement Learning

NLP

Distributed & Real-Time Systems

Crowdsourcing & HCI

RECENT PUBLICATIONS

🌟 **Divide and Conquer: Neuroevolution for Multiclass Classification**
GECCO 2018

🌟 **What Can Rationales Behind Relevance Judgments Tell Us About Assessor Disagreement?**
ACM SIGIR 2018

🌟 **Modeling Crowd Behavioral Traces to Ensure Quality Annotations**
HCOMP 2018

🌟 **Neural Information Retrieval: At the End of the Early Years**
Information Retrieval, Springer 2018

🌟 **The Many Benefits of Annotator Rationales for Relevance Judgments**
IJCAI: Best Paper Track 2017

EDUCATION

🎓 **Ph.D. in Computer Science**
The University of Texas at Austin
📅 In Progress

🎓 **M.S. in Computer Science**
The University of Texas at Austin
📅 2017

🎓 **B.S. in Electrical Engineering**
The University of Texas at Austin
📅 2013