Jasmine Collins

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Education

University of California Berkeley — *Berkeley, CA*

Ph.D. Candidate in Computer Science (advised by Jitendra Malik) — *Aug 2017 - present*

University of Pittsburgh — *Pittsburgh, PA*

B.S. in Computer Science and Neuroscience, minor in Chemistry (Graduated summa cum laude) — *Aug 2012 - May 2016*

Work Experience

Google Brain — *Mountain View, CA*

Software Engineering Intern — *May 2018 - Sept 2018*

- Proposed a loss-based alternative to batch normalization that is more robust to small batch size training

AI Resident — *Jun 2016 - Aug 2017*

- Investigated tradeoffs between different recurrent neural network architectures
- Improved deep learning techniques for inferring latent dynamics from neural spiking data

University of Pittsburgh - Computational Biology Department — *Pittsburgh, PA*

Software Engineer — *Jan 2015 - Oct 2015*

- Added features to JavaScript library for molecular visualization, such as implementing symmetry support and animated models

Publications

E. Kosoy, **J. Collins**, D. Chan, S. Huang, D. Pathak, P. Agarwal, J. Canny, A. Gopnik, J. Hamrick. Exploring exploration: comparing children with RL agents in unified environments. *International Conference on Learning Representations (ICLR) Workshop*, ***Oral***, 2020.

J. Collins, K. Xu, B. Olshausen, B. Cheung. Automatically inferring task context for continual learning. *Cognitive Computational Neuroscience (CCN)*, ***Oral***, 2019.

J. Collins, J. Balle, J. Shlens. Accelerating Training of Deep Neural Networks with a Standardization Loss. *Women in Machine Learning (WiML) Workshop*, 2019.

C. Pandarinath, D. O'Shea, **J. Collins**, R. Jozefowicz, S. Stavisky, J. Kao, E. Trautmann, M. Kaufman, S. Ryu, L. Hochberg, J. Henderson, K. Shenoy, L. Abbott, D. Sussillo. Inferring single-trial neural population dynamics using sequential auto-encoders. *Nature Methods*, 2018.

J. Collins, J. Sohl-Dickstein, D. Sussillo. Capacity and trainability in recurrent neural networks. *International Conference on Learning Representations (ICLR)*, 2017.

J. Sunseri, M. Ragoza, **J. Collins**, D. R. Koes. A D3R prospective evaluation of machine learning for protein-ligand scoring. *Journal of Computer-Aided Molecular Design*, 2016.

Awards

2017 **NSF Graduate Research Fellowship Program**, Three years of support for graduate study for students who have demonstrated potential for significant achievements in science and engineering

2017 **Berkeley EECS Excellence Award**, Award for incoming graduate students with an outstanding undergraduate academic record

2016 **NCWIT Collegiate Award**, Award for college women with outstanding technical accomplishments that demonstrate a high level of creativity and potential impact

2016 **NetApp Systems Research Award**, Funding for undergraduate students to complete research in the area of computer systems

2016 **SGB Conference Travel Grant**, Travel grant for undergraduate students presenting at a conference

Teaching

Introduction to Artificial Intelligence *University of California, Berkeley*

Graduate Student Instructor *Spring 2020*