Jasmine Collins

(412)-334-7487 | jazzie@berkeley.edu | jazcollins.github.io | jazcollins

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 & Preprints ──────────────────

J. Collins, S. Goel, A. Luthra, L. Xu, K. Deng, X. Zhang, T. Yago, H. Arora, T. Dideriksen, M. Guillaumin, J. Malik. ABO: Dataset and benchmarks for real-world 3D object understanding. *arXiv:2110.06199*, 2021.

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.

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

Introduction to Artificial Intelligence

University of California, Berkeley

GRADUATE STUDENT INSTRUCTOR

Spring 2020