

Siyuan Gao

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EDUCATION

Yale University, New Haven, Connecticut, USA

- Ph.D. in Engineering Sep 2016 – May 2021
 - Adviser: Prof. Todd Constable
 - Focus: Machine learning, neuroimaging, signal processing.
- B.S. in Mathematics and Applied Mathematics Sep 2012 – May 2016
 - Adviser: Prof. Wei Chen
 - Graduated with College Honors.

RESEARCH EXPERIENCE

Department of Computer Science, New York University, Shanghai

- Undergraduate Research Student Feb 2016 – May 2016
 - Supervisors: Prof. Nan Cao
 - Project: RCLens: Interactive Rare Category Exploration and Identification
 - Published one paper in TVCG.

Department of Biomedical Engineering, University of California, Davis

- Undergraduate Research Student Jul 2015 – Sep 2015
 - Supervisors: Prof. Jinyi Qi
 - Project: Developed JMLAA algorithm, which improved performance of the state-of-art MLAA algorithm for PET image reconstruction

PUBLICATIONS

JOURNALS

- [3] A. Greene, S. Gao, R. Constable, D. Scheinost, “Task-induced brain state manipulation improves prediction of individual traits,” *Nature Communications (submitted)*, 2018.
- [2] H. Lin, S. Gao, D. Gotz, F. Du, J. He, N. Cao, “RCLens: Interactive Rare Category Exploration and Identification,” *IEEE Transactions on Visualization and Computer Graphics (TVCG)*, 2017.
- [1] F. Wang, W. Chen, Y. Zhao, T. Gu, S. Gao, H. Bao, “Adaptively Exploring Population Mobility Patterns in Flow Visualization,” *IEEE Transactions on Intelligent Transportation Systems*, 2017.

CONFERENCES

- [3] S. Gao, A. Greene, R. Constable, D. Scheinost, “Task Integration For Connectome-based Prediction Via Canonical Correlation Analysis,” in *IEEE International Symposium on Biomedical Imaging (ISBI)*, Washington, D.C., USA, Apr 2018.
- [2] A. Greene, S. Gao, R. Constable, D. Scheinost, “Brain state perturbation improves connectome-based predictive modeling of related behaviors,” in *Society for Neuroscience (SfN)*, Washington, D.C., USA, Nov 2017.
- [1] A. Greene, S. Gao, R. Constable, D. Scheinost, “Connectome-based predictive modeling: the impact of brain state and sex in a developmental cohort,” in *Flux Congress*, Portland, Oregon, USA Sep 2017.

TEACHING EXPERIENCE

Teaching Assistant, BENG352: Biomedical Signals & Images

Jan 2018 – Jun 2018

AWARDS & SCHOLARSHIPS

- Yale University Graduate Fellowship 2016 – 2021
- Outstanding graduate of Zhejiang Province May 2016
- National Scholarship 2014 – 2015
GPA top 1.5%
- First-Class Scholarship for Outstanding Students 2014 – 2015
- Outstanding Student Leader Awards 2012 – 2013

SKILLS

MATLAB, Python R, C++