Siyuan Gao

300 Cedar Street, New Haven, CT 06511, USA siyuan.gao@yale.edu • +1 (203) 390-8901 • siyuangao.com

EDUCATION	Yale University, New Haven, Connecticut, USA	
	Ph.D. in EngineeringAdviser: Prof. Todd ConstableFocus: Machine learning, neuroimaging, signal processing.	Sep 2016 – May 2021
	 B.S. in Mathematics and Applied Mathematics Adviser: Prof. Wei Chen Graduated with College Honors. 	Sep 2012 – May 2016

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

• Supervisors: Prof. Jinyi Qi

• Project: Developed an algorithm to improve performance of statistical PET image reconstruction.

PUBLICATIONS

JOURNALS

- [3] A. Greene, <u>S. Gao</u>, R. Constable, D. Scheinost, "Task-induced brain state manipulation improves prediction of individual traits," *Nature Communications*, 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

- [4] <u>S. Gao</u>, A. Greene, R. Constable, D. Scheinost, "Combining Multiple Connectomes via Canonical Correlation Analysis Improves Predictive Models," in *International Conference On Medical Image Computing And Computer Assisted Intervention (MICCAI)*, Granada, Spain, Sep 2018.
- [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, <u>S. Gao</u>, 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, <u>S. Gao</u>, 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 AWARDS & SCHOLARSHIPS

Teaching Assistant, *BENG352*: Biomedical Signals & Images

Jan 2018 – Jun 2018

Jul 2015 - Sep 2015

Yale University Graduate Fellowship	2016 – 2021
Outstanding graduate of Zhejiang ProvinceNational Scholarship	May 2016 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++