Siyuan Gao

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Sep 2016 – May 2021

Yale University, New Haven, Connecticut, USA

■ Ph.D. in Engineering

• Adviser: Prof. Todd Constable

	 Focus: Machine learning, neuroimaging, signal processing. 		
	 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 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	Feb 2016 – May 2016	
	 Undergraduate Research Student Supervisors: Prof. Jinyi Qi Project: Developed an algorithm to improve performance of statistical PET image re- 	Jul 2015 – Sep 2015 construction.	
PUBLICATIONS	JOURNALS		
	[3] A. Greene, <u>S. Gao</u> , R. Constable, D. Scheinost, "Task-induced brain state manipulation improves prediction of individual traits," <i>Nature Communications</i> , 2018.		
	[2] H. Lin, S. Gao, D. Gotz, F. Du, J. He, N. Cao, "RCLens: Interactive Rare Category Exploration and		

CONFERENCES

EDUCATION

[4] S. Gao, 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.

Identification," *IEEE Transactions on Visualization and Computer Graphics (TVCG)*, 2017.
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.

- [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	Teaching Assistant , <i>BENG</i> 352: Biomedical Signals & Images	Jan 2018 – Jun 2018
EXPERIENCE AWARDS & SCHOLARSHIPS	 Yale University Graduate Fellowship Outstanding graduate of Zhejiang Province National Scholarship GPA top 1.5% 	2016 – 2021 May 2016 2014 – 2015
	 First-Class Scholarship for Outstanding Students Outstanding Student Leader Awards 	2014 – 2015 2012 – 2013

SKILLS MATLAB, Python R, C++