Song Qi

Caltech, 1200 East California Blvd
Pasadena, CA 91125, USA

4th Year PhD student

+1 917 274 9225
sqi@caltech.edu

EDUCATION

8/2016–Present	**PhD Candidate**: **California Institute of Technology** (Caltech), USA Investigating fear and anxiety in ecologically valid contexts with fMRI and computational models. Supervisors: Dean Mobbs, John O'Doherty and Ralph Adolphs
6/2014–8/2016	**PhD Candidate**: **Columbia University in the City of New York**, USA How Social factors influence human decision making under threat Supervisors: Dean Mobbs and James Curley
8/2010–6/2014	**BSc Electronic Information & Biomedical Engineering** (Hons): **UESTC**, China Ying Cai Experimental School (School of Honor, Top 5% undergrads) Supervisors: Keith M. Kendrick and Benjamin Becker

PUBLICATIONS

Qi S., Hassabis, D., Sun J., Guo,F., Daw N., Mobbs,D. (2018). How cognitive and reactive fear circuits optimize escape decisions in humans, **Proceedings of the National Academy of Sciences** 115 (12), 3186-3191

Qi S.*, Footer O.*, Camerer, C.F. and Mobbs,D. (2018). A collaborator's reputation can bias decisions and anxiety under uncertainty, **Journal of Neuroscience** 38 (9), 2262-2269

Qi S.*, Hu J.*, Becker B.*, Luo L., Gao S., Gong Q., Hurlemann R. and Kendrick K.M. (2015). Oxytocin selectively facilitates learning with social feedback and increases activity and functional connectivity in emotional memory and reward processing regions, **Human Brain Mapping** 36(6), 2132-2146

Qi S.*, Fung B.*, Hassabis, D., Daw N., Mobbs D. (in prep). The ventral hippocampus-medial prefrontal pathway is swayed by trait anxiety for slow, but not fast, escape decisions.

Yao, S., **Qi S.**, Kendrick, K.M. and Mobbs,D. (2018). Attentional Set to Safety recruits the ventromedial PFC, bioRxiv,

ACADEMIC WORK EXPERIENCE

9/2014–present	Research Assistant: Mobbs Lab for Social, Affective and Ecological Neuroscience, Caltech, USA Fear and decision making under threat, with **fMRI** techniques and **computational modelling** Supervisors: Dean Mobbs, in collaboration with John O'doherty and Ralph Adolphs
3/2012–6/2014	Research Assistant: Social Cognition and Affective Neuroscience Group, UESTC, China **Oxytocin**'s selective facilitation of socially reinforced learning Supervisors: Keith M. Kendrick, Benjamin Becker and Jiehui Hu
6/2013–7/2013	Visiting Research Assistant, Neuromodulation of Emotion Group, Universität Bonn, Germany Experimental TMS therapy for **depression** patients Supervisor: Rene Hurlemann
7/2013–10/2013	Visiting Research Assistant, Immunotrafficking lab, University of Manitoba, Canada Collective Electrotaxis of Epithelial Cell Supervisor: Francis Lin

ACADEMIC AWARDS AND HONOURS

9/2014	**Dean's Fellowship** Columbia University in the City of New York
6/2014	**Outstanding Student** University of Electronic Science and Technology of China,10 out of 4,500 undergrads
8/3/2017	**Honorable Mention** The 2013 ICM (Interdisciplinary Contest of Modelling)
8/12/2016	**National Scholarship** Ministry of Education of China, Awarded to the top 1% students

CONFERENCE PRESENTATIONS (SELECTION)

Talks:

Qi S., Hassabis, D., Sun J., Guo,F., Daw N., Mobbs,D. (2018) "Cognitive/reactive fear circuits and decision under threat".
@Society for Affective Science, 5th Annual Conference, Los Angeles, USA

Qi S., Hassabis, D., Sun J., Guo,F., Daw N., Mobbs,D. (2017) "How Cognitive and reactive fear circuits optimize escape decisions in humans".
@Social & Affective Neuroscience Society, 10th Annual Meeting, Los Angeles, USA

Posters:

Qi S., Hassabis, D., Sun J., Guo,F., Daw N., Mobbs,D. (2018) "How Cognitive and reactive fear circuits optimize escape decisions in humans". Society for Affective Science, 5th Annual Conference, Los Angeles, USA

Qi S.*, Footer O.*, Camerer, C.F. and Mobbs,D. (2016). "A collaborator's reputation can bias decisions and anxiety under uncertainty". Social & Affective Neuroscience Society, 9th Annual Meeting, New York

Qi S.*, Hu J.*, Luo L., Gao S., Becker B., Gong Q., Hurlemann R., Kendrick K.M. (2013) Oxycontin facilitates learning with social feedback and activity in emotion and reward regions. 2013 Annual Conference of Society for Social Neuroscience, Guangzhou, China

SKILLS

Techniques	**fMRI** (with SPM and FSL analytical tool box), **Multi-voxel pattern analysis** (with PyMVPA) **Computational modelling** and machine learning (e.g. SVMs)
Programming	Experienced with **MATLAB**, **Python** and **R**. Working knowledge for C++ and JAVA.
Languages	Chinese (native), English (fluent), Japanese (fair)
Tools	SPSS, Psychtoolbox, Cogent, Adobe Illustrator, Adobe Photoshop, Inkscape, LaTeX.

TEACHING & SUPERVISION

9/2014-9/2016	Introduction to Psychology (Teaching assistant with guest lectures)
	With Patricia Lindemann, Columbia University in the City of New York
3/2018–Present	Principles of Cognitive Neuroscience (Teaching assistant)
	With Dean Mobbs, Caltech