Pamela D. Rivière Ruiz

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EDUCATION

University of California, San Diego Sept 2016 - Present
Ph.D. Student in Cognitive Science
- ***Advisor:*** *Dr. Lara Rangel*

Boston University Sept 2011 - May 2015
B.A. in Neuroscience with Honors
- ***Honors Committee:*** *Dr. Howard Eichenbaum, Dr. Nancy Kopell, Dr. Mark Kramer*

RESEARCH EXPERIENCE

Research Assistant June 2013 - Aug 2015
Howard Eichenbaum Laboratory
Center for Memory and Brain, Boston University

TEACHING EXPERIENCE

Graduate Teaching Assistant
Department of Cognitive Science
University of California, San Diego
Courses:
- COGS1: Introduction to Cognitive Science Jan 2017 - Mar 2017
- COGS107C: Cognitive Neuroscience Mar 2017 - June 2017
- COGS107A: Neuroanatomy and Neurophysiology Sep 2017 - Dec 2017

Undergraduate Learning Assistant Aug 2012 - Aug 2014
Chemistry Department
Boston University
Course: General Chemistry (8 consecutive semesters, Summer included)

COMMUNITY OUTREACH

Colors of the Brain Sep 2016 - Present
Co-founder, Active Member
- Mentorship program for minority students interested in Cognitive Science and Neurosciences. Through one-on-one mentorship as well as small workshop series, we aim to facilitate the transition of minority students into research.

Program for Student Success in Engineering (POSSE) June 2016
Volunteer
- Program through which volunteers carry out fun STEM activities at Gompers Preparatory Academy to encourage highschool student engagement in science and engineering.

PUBLICATIONS

- **Rivière PD**, Rangel LM (2018) Spike-field coherence and firing rate profiles of CA1 interneurons during an associative memory task. *In: Deines A., Ferrero D., Graham E., Im M., Manore C., Price C. (eds) Advances in the*

Mathematical Sciences. AWMRS 2017. Association for Women in Mathematics Series, vol 15. Springer, Cham.

- **Rivière PD** (2017) Entorhinal Cortex. *Chapter in Encyclopedia of Animal Cognition and Behavior. Springer.*
- **Rivière PD** (2017) Medial Entorhinal Area. *Chapter in Encyclopedia of Animal Cognition and Behavior. Springer.*
- Rangel LM, Rueckemann JW, **Rivière PD**, Keefe KR, Porter BS, Heimbuch IS, Budlong CH, Eichenbaum H (2016) Rhythm coordination of hippocampal neurons during associative memory processing. *eLife, doi: 10.7554/eLife.09849*
- McKenzie S, Frank AJ, Kinsky NR, Porter B, **Rivière PD**, Eichenbaum H (2014) Hippocampal representation of related and opposing memories develop within distinct, hierarchically organized neural schemas. *Neuron, 83(1), 202-215*.

POSTERS

- Rangel LM, Keefe KR, **Rivière PD**, Eichenbaum H (2015) Stimulation of the lateral entorhinal cortex reveals optimal frequencies for rhyhtmic entrainment of downstream hippocampal neurons. *Society for Neuroscience*
- Rangel LM, Keefe KR, **Rivière PD**, Budlong CH, Heimbuch IS, Porter BS, Eichenbaum H (2014) Single cell and ensemble odor-place representations in the dentate gyrus and CA1 of the hippocampus. *Society for Neuroscience*

FELLOWSHIPS AWARDS

Innovative Research Grant Sep 2018 - May 2019
Kavli Institute for Brain and Mind

Graduate Research Fellowship Program Sep 2018 - Present
National Science Foundation

San Diego Fellowship Award Sep 2017 - June 2018
Temporal Dynamics of Learning Center, UCSD

Most Available Teaching Assistant Award June 2017
Department of Cognitive Science, UCSD

Senior Honors in Neuroscience May 2015
Department of Neuroscience, Boston University

Silvio O. Conte Grant June 2013, 2014
Department of Neuroscience, Boston University

TECHNICAL SKILLS

In Vivo Electrophysiology
Single-unit and local field potential recordings
Hyperdrive construction (96-channel)

Microdrive construction (16-, 32-channel, multi-site)

Behavioral Training
Context-guided associative learning tasks
T-maze alternation task (with and without treadmill)
Circular track
Radial arm maze

LANGUAGES

Spanish
Native speaker

English
Fluent

French
Fluent