

# Caitlin M. Taylor

Postdoctoral Fellow, Neuroscience and women's health  
University of California, Santa Barbara

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## EDUCATION

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- 2010–2016 **Ph.D. Neuroscience**  
Georgetown University, Washington, DC  
Advisor: *Guinevere Eden, D.Phil.*
- 2003–2007 **B.S. Psychology, B.A. French**  
Indiana University, Bloomington, IN  
Academic Honors: Phi Beta Kappa, Psi Chi, High Distinction
- 2006–2007  
Université Paris Diderot, Paris, France  
Academic Programs International/UMass Amherst Academic Year Study Abroad

## RESEARCH EXPERIENCE

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- 2017–Present **Postdoctoral Fellow**, University of California, Santa Barbara  
*Hormone-Based Medication Use its Impact on Brain Morphology and Function*  
Department of Psychological and Brain Sciences
- 2010–2016 **Graduate Researcher**, Georgetown University  
*Experience-Dependent Modulation of the Neural Substrates of Visual Motion Processing*  
Department of Pediatrics
- 2007–2010 **Research Assistant**, Rehabilitation Institute of Chicago  
Center for Rehabilitation Outcomes Research
- 2007–2010 **Research Assistant**, Loyola University Chicago  
Chicago Healthy Adolescents Transition Study

## FUNDING

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- 2019–2020 Harvey L. Karp Discovery Award, \$47,000 one-year research award
- 2018–2020 UCSB SAGE Center for the Study of the Mind Junior Fellow, \$20,000 two-year fellowship
- 2016 Georgetown Career Development Initiative Training Award – \$400
- 2016 Georgetown Medical Center Graduate Student Organization Course Grant – \$900

## AWARDS, SCHOLARSHIPS, AND RECOGNITION

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- 2020 Intersections Science Fellows Symposium Associate
- 2020 Young Investigator Award, Women's Brain Health Conference
- 2020 Organization for the Study of Sex Differences, Travel Award
- 2018 Florence P. Haseltine Award for outstanding poster presentation by a new investigator
- 2010–2012 Georgetown University Merit Scholarship
- 2006–2007 Dean D. and Jo Ann Aulick Award for Academic Excellence
- 2006 Phi Beta Kappa, Psi Chi
- 2003–2007 Indiana University Faculty Award for Academic Achievement
- 2003–2007 Indiana University Dean's List
- 2003–2007 Indiana University Hutton Honors College

## PUBLICATIONS & MANUSCRIPTS

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Pritschet, L., **Taylor, C. M.**, Santander, T., Jacobs, E. G. (2021). Applying dense-sampling methods to reveal dynamic endocrine modulation of the nervous system. *Current Opinion in Behavioral Sciences*, 40, 72–78.

**Taylor CM**, Pritschet L, Jacobs EG. The scientific body of knowledge - whose body does it serve? A spotlight on oral contraceptives and women's health factors in neuroimaging. *Frontiers in Neuroendocrinology*, 100874.

Mueller, J. M., Pritschet, L., Santander, T., **Taylor, C. M.**, Grafton, S. T., Jacobs, E. G., & Carlson, J. M. (2021). Dynamic community detection reveals transient reorganization of functional brain networks across a female menstrual cycle. *Network Neuroscience*, 5(1), 125-144.

**Taylor CM**, Pritschet L, Olsen RK, Layher E, Santander T, Grafton S, Jacobs EG. (2020) Progesterone shapes medial temporal lobe volume across the human menstrual cycle. *NeuroImage*, 220, 117125.

Pritschet L, Santander T, **Taylor CM**, Layher E, Yu S, Miller MB, Grafton ST, Jacobs EG. (2020) Functional reorganization of brain networks across the human menstrual cycle. *NeuroImage*, 220, 117091.

**Taylor, CM**, Pritschet, L, Yu, S, & Jacobs, EG. (2019). Applying a women's health lens to the study of the aging brain. *Frontiers in human neuroscience*, 13, 224.

**Taylor, CM**, Olulade, O, Luetje, M, & Eden, G. (2018). An fMRI study of coherent visual motion processing in children and adults. *NeuroImage*, 173, 223–239.

Ullrich L, Dumanis S, Evans T, Jeannotte A, Leonard C, **Taylor C**, Rozzi S, Gale K, Kanwal J, Wolfe B, Forcelli P. (2014). From student to steward: The Interdisciplinary Program in Neuroscience at Georgetown University as a case study in professional development during doctoral training. *Med Educ Online*; 19:10.3402

## CONFERENCE PRESENTATIONS

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**Taylor C**. Progesterone Shapes Medial Temporal Lobe Volume Across a Human Menstrual Cycle. Oral presentation given at the Women's Brain Health: Young Investigator Symposium, virtual from Vancouver, BC, May 2020.

**Taylor C**, Pritschet L, Layher E, Santander T, Grafton S, Jacobs E. Human hippocampal subfield volume variability across one complete reproductive cycle. Poster presented at the Organization for Human Brain Mapping, Rome, Italy, Jun 2019.

Pritschet L, Santander T, Layher E, **Taylor C**, Yu S, Miller M, Grafton S, Jacobs E. Estradiol shapes resting state functional connectivity strength over a complete reproductive cycle" Poster presented at the Organization for Human Brain Mapping, Rome, Italy, Jun 2019.

**Taylor C**, Jacobs E. Impact of oral hormonal contraceptives on the CNS: Developing a population neuroimaging study. Poster presented at Society for Neuroscience, San Diego, CA, Nov 2018.

**Taylor C**, Jacobs E. Determining the impact of oral hormonal contraceptives on the central nervous system: a large-scale population neuroimaging study. Poster presented at Organization for Study of Sex Differences, Atlanta, GA, May 2018.

**Taylor C**, Flowers D, Napoliello E, VanMeter J, Eden G. Anatomical-behavioral relationships for reading and reading-related skills in children and adults. Poster presented at Organization for Human Brain Mapping, Honolulu, HI, June 2015.

**Taylor C**, Olulade O, Luetje M, Eden G. An fMRI study of visual motion processing in area V5/MT in typical readers. Poster presented at Society for Neuroscience, Washington, DC, Nov 2014.

Forcelli F, Queenan B, **Taylor C**, Leonard C, Ullrich L. Collaborative student-faculty curricular design and teaching: Summer course and boot camp. Poster presented at Society for Neuroscience, San Diego, CA, Nov 2013.

Kinney C, Rozzi S, **Taylor C**. Hot Topics in Health Science: Improving scientific communication through public seminars. Poster presented at Society for Neuroscience, New Orleans, LA, Oct 2012.

## TEACHING EXPERIENCE

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### University of California, Santa Barbara

#### *Instructor of Record*

Summer 2019, 2020 Introduction to Cognitive Psychology (PSY-108)

### Georgetown University

#### *Course Co-Director*

2011–2016 Experiences in Neuroscience (NSCI-984)

##### *Lectures (Summer):*

2014 *Intro and History of Neuroscience; Limbic System; Comparative Anatomy*  
2013 *Intro and History of Neuroscience; Sensation; Limbic Anatomy*  
2012 *Visceral Systems; Summer Course Review*  
2011 *CNS Anatomy Recap*

2012–2014 Neuroscience Recitation (NSCI-511)

##### *Lectures (Fall–Spring):*

2013–14 *Auditory and vestibular systems; Sensation; Motor systems; Neural dynamics, repair & regeneration; Regulatory systems; Attention & executive function; Learning & Memory; Cognition*  
2012–13 *Regulation of motor function: basal ganglia & cerebellum; Behavior; Neural development, injury, and repair*

#### *Graduate Teaching Fellow*

Fall 2011 Social and Affective Neuroscience (PSYC–235; Director: *Dr. A. Marsh*)

##### *Lecture:*

Fall 2011 *Sex Differences in the Brain*

#### *Pedagogical Training*

2012–2016 *Apprenticeship in Teaching Program*  
Center for New Designs in Learning & Scholarship, Georgetown University

2014 *Scientists Teaching Science: 2hr workshop and 9-week online course*  
National Institutes of Health

## INVITED LECTURES

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Feb 2019 *'The Birth Control Pill: What is it and what does it do to the brain?'*  
Behavioral Endocrinology (PSY-137; Director: *Dr. E. Jacobs*)  
University of California, Santa Barbara

Feb 2019 Special Topics – Hormones & Cognition (PSY-163; Director: *Dr. E. Jacobs*)  
University of California, Santa Barbara

May 2018 Behavioral Endocrinology (PSY-137; Director: *Dr. E. Jacobs*)  
University of California, Santa Barbara

Apr 2018 SBCC NeuroClub (Director: *Dr. L. Tolentino*)  
Santa Barbara Community College

Feb 2018 *'Effects of Oral Contraceptives on Brain Structure'*  
Contemporary Issues in Biopsychology (PSY-163; Director: *Dr. E. Jacobs*)  
University of California, Santa Barbara

## MENTORSHIP & STUDENT SUPERVISION

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### Senior Honors Thesis

2020 – Present Elisabeth Rindner — Currently an undergraduate at UCSB  
2019–2020 Margaret Hayes — Currently the Brain Imaging Center Administrative Assistant at UCSB

### Rotation Students

2019–2020 Kirsten Rollins — Currently a graduate student in Cellular, Molecular, Developmental Biology  
2018–2019 Audrey Murphy — Currently an undergraduate at University of Southern California

### Undergraduate Research Assistants

2019–2020 Annjelika Slate — Currently an undergraduate at University of California Santa Barbara  
2018–2019 Julia Woods — Currently a medical student at University of Wisconsin – Madison

## ACADEMIC SERVICE

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2019–Present **UCSB Unit Chair**  
UAW Local 5810 UC Postdoctoral Union, University of California, Santa Barbara

2020 **Organizer** – *Why Study the Individual*, 3-day workshop to discuss the role of densely-sampling the individual in modern neuroscience  
SAGE Center for the Study of the Mind, University of California, Santa Barbara

2019 **Organizer** – *Kavli Brain Lunches*, bi-weekly lunches to promote communication and collaboration between brain researchers on the UCSB campus  
SAGE Center for the Study of the Mind, University of California, Santa Barbara

Jan 2019 **Organizer, Emcee** – *Kavli BRAIN Showcase*, a half-day symposium highlighting brain-related research from departments across UCSB  
University of California, Santa Barbara

2017–2019 **UCSB Elections Committee Representative**  
UAW Local 5810 UC Postdoctoral Union, University of California, Santa Barbara

2014–2016 **Creator, editor, contributor** – **IPN Newsletter**, [neuroscience.georgetown.edu/newsletter.html](http://neuroscience.georgetown.edu/newsletter.html)  
Interdisciplinary Program in Neuroscience, Georgetown University

2013–2016 **Grant Reviewer** – Student Research Grants Program  
Medical Center Graduate Student Organization, Georgetown University

2012–2016 **IPN Webmaster**  
Interdisciplinary Program in Neuroscience, Georgetown University

2013–2014 **IPN Student Government President**  
Interdisciplinary Program in Neuroscience, Georgetown University

2011–2012 **IPN Admissions Committee**  
Interdisciplinary Program in Neuroscience, Georgetown University

2010–2012 **IPN Curriculum Committee**  
Interdisciplinary Program in Neuroscience, Georgetown University

## PUBLIC ENGAGEMENT

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**Founder, Director**  
2017–Present 500 Women Scientists – Santa Barbara Pod, Santa Barbara, CA  
2011–2013 Hot Topics in Health Science Public Seminar Series, MLK Jr. Public Library, Washington, DC

### **Organizer, Moderator**

Apr 2019 Women in STEM Speed-Mentoring Event  
Apr 2018 Women in STEM Career Development Workshop  
Oct 2017 Women in STEM Speed-Mentoring Event  
500 Women Scientists – Santa Barbara Pod

### **Science Advocate**

Mar 2016 Capitol Hill Day, Society for Neuroscience, Washington, DC

### **Science Outreach**

2017–Present Brainiacs Elementary School Visits, University of California, Santa Barbara  
May 2018 Laguna Blanca School MRI Visit  
Oct 2017 Knox School MRI Visit Leader  
Feb, May 2017 Curie-osity Project/Girls Inc. Lab Tour Guide  
Covered by NPR: <https://tinyurl.com/npr-curie-osity>  
Mar 2012–2015 Motor Reflexes Station Leader, Brain Awareness Week  
Medical Center Graduate Student Organization, Georgetown University

### **Invited Speaker**

Apr 2018 *'Estrogen and the Brain: A dynamic relationship across the lifespan,'* Science Pub  
Museum of Natural History, Santa Barbara, CA  
Jan, Mar 2018 *'Happiness and the Brain,'* Synthesis Unit  
Anacapa School, Santa Barbara, CA

### **Science Fair/Brain Bee Judge**

Mar 2017, 2019 Santa Barbara County Science Fair, Santa Barbara, CA  
Feb 2013–2016 Key Elementary School Science Fair, Washington, DC  
Mar 2012–2015 Brain Bee, Brain Awareness Week, AAAS, Washington, DC

### **Workshop Leader**

Oct 2017 *'A User's Guide to the Brain,'* I Heart STEM Conference  
UCSB Women's Center, University of California, Santa Barbara  
May 2017 *'Making Up Your Mind,'* Tech Savvy STEM Conference  
American Association of University Women & UCSB Women's Center, UCSB

## **PROFESSIONAL SOCIETIES**

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2016–Present Organization for the Study of Sex Differences  
2015–Present Association for Women in Science  
2014–Present American Association for the Advancement of Science  
2011–Present Society for Neuroscience  
2013, 2015 Organization for Human Brain Mapping  
2012 Cognitive Neuroscience Society

## **OTHER SKILLS**

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**Software:** Microsoft Office Suite, MATLAB, SPM, CONN Toolbox, R Studio, ITK-Snap, html, drupal

**Hardware:** Windows and Apple OS X platforms

**Languages:** English – native language, French – conversational