

Caitlin M. Taylor

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

caitlintaylorphd.com
cmtaylor@ucsb.edu

EDUCATION

- 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

- 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

- 2021–2022 Errett Discovery Award in Biomedical Research, \$75,000 one-year research award
2019–2020 Harvey L. Karp Discovery Award, \$47,000 one-year research award

AWARDS, SCHOLARSHIPS, AND RECOGNITION

- 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
2018–2020 UCSB SAGE Center for the Study of the Mind Junior Fellow
2018 Florence P. Haseltine Award for outstanding poster presentation by a new investigator
2016 Georgetown Career Development Initiative Training Award
2016 Georgetown Medical Center Graduate Student Organization Course Grant
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

Pritschet, L, **Taylor, CM**, Santander, T, Jacobs, EG. (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, JM, Pritschet, L, Santander, T, **Taylor, CM**, Grafton, ST, Jacobs, EG, & Carlson, JM. (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

Taylor CM, Furman DJ, Berry AS, White III RL, Jagust WJ, D'Esposito M, Jacobs EG. Differences in striatal dopamine synthesis and task switching performance between hormonal contraceptive users and non-users. Poster submitted to Society for Neuroscience, Chicago, IL, Nov 2021.

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

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

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

Senior Honors Thesis

- 2020–2021 Elisabeth Rindner — Currently a lab manager at UCSF
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

- 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
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

REVIEWER

Human Brain Mapping • International Journal of Environmental Research and Public Health • Psychoneuroendocrinology

EDITORIAL

Frontiers in Behavioral Neuroscience, Elsevier Press, Guest Editor Special Issue on Women's Brain Health (2021)

PUBLIC ENGAGEMENT

2017–Present	Founder, Director
2011–2013	500 Women Scientists – Santa Barbara Pod, Santa Barbara, CA 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	<i>'Estrogen and the Brain: A dynamic relationship across the lifespan,'</i> Science Pub Museum of Natural History, Santa Barbara, CA
Jan, Mar 2018	<i>'Happiness and the Brain,'</i> 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	<i>'A User's Guide to the Brain,'</i> I Heart STEM Conference UCSB Women's Center, University of California, Santa Barbara
May 2017	<i>'Making Up Your Mind,'</i> Tech Savvy STEM Conference American Association of University Women & UCSB Women's Center, UCSB

PROFESSIONAL SOCIETIES

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

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

Hardware: Windows and Apple OS X platforms

Languages: English – native language, French – conversational