

Emily Goard Jacobs

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Department of Psychological and Brain Sciences
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EDUCATION

- 2004-2010 **University of California, Berkeley**
Ph.D in Neuroscience
Advisor: *Mark D'Esposito, M.D.*
Neuroscience Ph.D. Commencement Address
- 2003-2004 **Harvard University**
Concentration: Mind, Brain, Behavior
Visiting Undergraduate Scholars program
- 2000-2004 **Smith College**
B.A. in Neuroscience
Phi Beta Kappa, Sigma Xi, Cum laude

APPOINTMENTS & EXPERIENCE

- Spring 2016* **Assistant Professor, University of California, Santa Barbara**
Department of Psychological and Brain Sciences
Principal Investigator, Neuroscience and Women's Health Laboratory
**On-campus start date*
- 2013-2016 **Instructor in Psychiatry, Harvard Medical School**
NIH K12 Career Development Award, HD051959
Title: "Sex-specific chromosomal and neural markers of aging in mid-life men and women: A lifespan perspective"
Advisor: *Jill Goldstein, Ph.D.*
Co-mentors: *Phil De Jager, M.D., Ph.D., Immaculata De Vivo, M.PH, Ph.D., Anne Klibanski, M.D.*
- 2012-2013 **Stuart T. Hauser CRTP Fellow, Harvard Medical School**
Clinical Research Training Program, T32 MH 016259
Advisor: *Jill Goldstein, Ph.D.*
Co-mentors: *Jordan Smoller, M.D., Sc.D., Anne Klibanski, M.D.*
- 2010-2012 **Robert Wood Johnson Foundation Health and Society Scholar**
University of California, San Francisco
Advisor: *Elissa Epel, Ph.D.*
Projects
 - A longitudinal, randomized study of estrogen's role in cellular and neural aging: Does post-menopausal estrogen use slow telomere attrition in mid-life women?
With: *Natalie Rasgon, M.D., Elizabeth Blackburn, Ph.D.*

- Do natural fluctuations in estradiol during the menstrual cycle alter drug-induced dopamine release in women? A pharmacological raclopride PET–fMRI study.
With: *William Jagust, M.D., Mark D’Esposito, M.D., Daniel Weinberger, M.D.*

2004-2010

Helen Wills Neuroscience Institute, UC Berkeley

Dissertation

- Estrogen shapes dopamine-dependent cognitive processes: Implications for women’s health.
Committee: *Mark D’Esposito, M.D., Robert Knight, M.D., William Jagust, M.D. David Presti, Ph.D.*
Collaborative work on social status and health
- Mechanisms by which subjective social status shapes immune function
With: *Darlene Francis, Ph.D. (PI), Rudy Mendoza-Denton, Ph.D.*
- Amygdala reactivity as a function of social status in children.
With: *Kaja LeWinn, Ph.D.*

2001-2004

Visual Cognition fMRI Laboratory, Smith College

Undergraduate Research

- Mentor: *MJ Wraga, Ph.D.*

2003

Institute of Cognitive Neuroscience, University College London

Undergraduate Research

- Mentors: *Sarah-Jayne Blakemore, Ph.D., Uta Frith, Ph.D.*

2001-2003

Center for Developmental Cognitive Neuroscience, UMass Medical School

Undergraduate Research

- Mentor: *Adele Diamond, Ph.D.*

FUNDING

2016-2020

National Institutes of Health R01 MH108511 (PI Jason Moser)
Cognitive Control in Anxiety: The Role of Ovarian Hormones
Role: Consultant, 5-year award

2013-2016

National Institutes of Health K12 HD051959 Career Development Award
Building Interdisciplinary Research Careers in Women’s Health (BIRCWH)
\$300,000, 3-year award
Role: PI/Scholar

2012

National Institutes of Health MH016259
NIH/Harvard Medical School Stuart T. Hauser CRTP Fellowship
\$88,680, 2-year award
Role: PI/Scholar

2010-2012

Robert Wood Johnson Foundation Health and Society Fellowship
\$200,850, 2-year award
Role: PI/Scholar

2009

Elizabeth Roboz Einstein Fellowship in Neurosciences and Human Development
\$5,000, 1-year award

2009

Phi Beta Kappa Graduate Scholarship
\$5,000, 1-year award

- 2007 UC Berkeley Consortium on Population Health and Human Development Pilot Grant
\$10,000, 1-year award
- 2006-2009 National Science Foundation Graduate Research Fellowship
\$122,500, 3-year award

HONORS

- 2013-2016 National Institutes of Health "BIRCWH" Women's Health Scholar
2014 NIH Travel Award, Organization for the Study of Sex Differences
2013 Early Career Travel Award, The American College of Neuropsychopharmacology
2012 Harvard Medical School's Stuart T. Hauser Clinical Research Fellow
2010-2012 Robert Wood Johnson Foundation Health and Society Scholar
2006-2009 National Science Foundation Graduate Research Fellow
2006 Patricia Goldman-Rakic Fellow for Women in Neuroscience
2004 Rhodes Scholarship finalist
2004 Council on Undergraduate Research, 'Posters on Capitol Hill' award
2003 Howard Hughes Medical Institute Undergraduate Research Fellowship
2002 International Education of Students: Excellence in the Sciences Scholarship
2002 Howard Hughes Medical Institute Undergraduate Research Fellowship
2000 National Youth Science Foundation, Governor-appointed Illinois state representative

PEER-REVIEWED PUBLICATIONS & MANUSCRIPTS

Complete list of published work in *MyBibliography*:

<http://www.ncbi.nlm.nih.gov/sites/myncbi/1PwY1mpx5stQR/bibliography/47441739/public/?sort=date&direction=ascending>.

Jacobs E.G., Weiss B., Makris N., Whitfield-Gabrieli S., Buka S., Klibanski A., Goldstein J.M. (2016) Reorganization of functional networks in verbal working memory circuitry in early midlife: The impact of sex and menopausal status. *Cerebral Cortex* (in press)

Jacobs E.G., Holsen L., Lancaster K., Makris N., Whitfield-Gabrieli S., Remington A., Weiss B., Buka S., Klibanski A., Goldstein J.M. (2015) 17 β -Estradiol differentially regulates stress circuitry activity in healthy and depressed women. *Neuropsychopharmacology*. 40, 566-576. PMID: 25113601 PMCID: PMC4289944

Cohen J., Gallen C., **Jacobs E.G.**, Lee T., D'Esposito M. (2014) Quantifying the reconfiguration of intrinsic networks during working memory. *PLoS ONE*. 9(9): e106636. PMCID: PMC4156328

Jacobs E.G., Epel ES, Lin J, Blackburn EH, Rasgon NL. (2014) Relationship between leukocyte telomere length, telomerase activity and hippocampal volume in early aging. *JAMA Neurology*. 71(7):921-923. PMID: 25023551

Jacobs E.G., Kroenke C, Lin J, Epel ES, Kenna HA, Blackburn EH, Rasgon NL. (2013) Accelerated cell aging in female APOE- ϵ 4 carriers: Implications for hormone therapy use. *PLoS ONE* 8(2): e54713. PMCID: PMC3572118 (*Faculty of 1000 selection*)

John N., **Jacobs E.G.**, Mendoza-Denton R., Francis D.D. (2012) Wealth, health and the moderating role of implicit social class bias. *Annals of Behavioral Medicine* 45(2):173-179. PMID: 23229159

Jacobs E.G., D'Esposito M. (2011) Estrogen shapes dopamine-dependent cognitive function: Implications for women's health. *Journal of Neuroscience*. 31(14):5286-5293. PMCID: PMC3089976 (*Featured Article*)

Cools R., Sheridan M., **Jacobs E.**, D'Esposito M. (2007). Impulsive personality predicts dopamine-dependent changes in frontostriatal activity during component processes of working memory. *Journal of Neuroscience*. 27(20):5506–5514 PMID: 1750757

Wraga M., Helt M., **Jacobs E.**, & Sullivan K. (2007). Neural basis of stereotype-induced shifts in women's mental rotation performance. *Social, Cognitive, and Affective Neuroscience* 2(1):12-19 PMCID: PMC2555429

Wraga M., Duncan L., **Jacobs E.**, Helt M., & Church J. (2006). Stereotype susceptibility narrows the gender gap in imagined self-rotation performance. *Psychonomic Bulletin & Review* 13(5):813-9 PMID: 17328378

Jacobs E.G., Weiss B., Makris N., Whitfield-Gabrieli S., Buka S., Klibanski A., Goldstein J.M. Impact of sex and menopausal status on episodic memory circuitry in early midlife. (*Under review*)

Rentz D.M., Weiss B., **Jacobs E.G.**, Cherkerzian S., Buka S., Remington A., Aizley H., Goldstein J.M. Sex differences in episodic memory in early midlife: Impact of reproductive aging (*Under review*)

Jacobs E.G., Dang L., Laguerta E., Weinberger D., D'Esposito M., Jagust W. Endogenous fluctuations in 17 β -estradiol potentiate Ritalin-induced dopamine release in women. (*in preparation*)

Jacobs E.G., Vytlačil J., D'Esposito M. Estradiol alters neural mechanisms of selective attention. (*in preparation*)

CONFERENCE PUBLICATIONS

Jacobs E.G., Weiss B., Rentz D., Whitfield-Gabrieli S., Remington A., Aizley H., Klibanski A., Goldstein J.M. Depletion of sex steroid hormones in mid-life alters hippocampal activity during verbal memory encoding: A population-based fMRI study of sex differences in memory decline. *Neuropsychopharmacology* (2015) 40, S106–S271; doi:10.1038/npp.2015.325

Jacobs E.G., Weiss B., Whitfield-Gabrieli S., Klibanski A., Goldstein J.M. Reproductive aging is associated with altered prefrontal and hippocampal signaling during working memory. *Journal of Women's Health* (2014) 23, 862. doi:10.1089/jwh.2014.ab05.abstracts

Jacobs E.G., Weiss B., Whitfield-Gabrieli S., Remington A., Aizley H., Klibanski A., Goldstein J.M. Reproductive aging modulates working memory-related neural activity in women. *Neuropsychopharmacology* (2015) 39, S473–S647; doi:10.1038/npp.2014.282.

Jacobs E.G., Holsen L., Lancaster K., Whitfield-Gabrieli S., Remington A., Buka S., Klibanski A., Goldstein J.M. Gonadal hormone regulation of stress circuitry activity in healthy women is disrupted in major depressive disorder. *Neuropsychopharmacology* (2013) 38, S585–S586.

Jacobs E., D'Esposito M. Estrogen impacts dopamine circuitry: Implications for sex differences in stress-induced prefrontal cortical dysfunction. *Biological Psychiatry* (2012) 71, S166-167; doi: 10.1016/j.biopsych.2012.02.013.

Song SH., Chen AJ, Nycum TJ, Turner GR, **Jacobs E.**, D'Esposito M. Attention reduces variability of goal-relevant perceptual representations within visual association cortex. *NeuroImage* (2009) 47, S65; doi: 10.1016/S1053-8119(09)72109-3.

Jacobs E., D'Esposito M. Individual differences in cognition: How a person's hormonal state and genetic background impacts prefrontal cortical function. *NeuroImage* (2009) 47, S189; doi: 10.1016/S1053-8119(09)72109-3.

INVITED LECTURES

- “Role of estrogen in regulating stress circuitry” Kavli Summer Institute in Cognitive Neuroscience, Topic: “The Stressed Brain” **University of California, Santa Barbara** (2016, June). Hosts: Barry Giesbrecht, Ph.D., Maarten de Vos, Ph.D.
- “Interrogating the role of sex steroid hormones in memory circuitry” Southern California Learning and Memory Symposium, **University of California, Los Angeles** (2016, May). Hosts: Alcino Silva, Ph.D., Michael Fanselow, Ph.D., David Glanzman, Ph.D.
- “Reorganization of functional networks in memory circuitry in early midlife: The role of sex and menopausal status”. Annual Neurosciences Interdisciplinary Retreat, **BWH Institute for Neurosciences**, (2015, November). Host: Anu Swaminathan, Ph.D., c/o Brigham Research Institute Executive Committee
- “Fetal origins of the aging of memory circuitry”. Robert Wood Johnson Foundation Health and Society Seminar Series, **Harvard T.H. Chan School of Public Health**, (2015, November). Host: Lisa Berkman, Ph.D.
- “Interrogating the role of sex steroid hormones in memory circuitry” Department of Psychology, **Columbia University**, (2015, May). Host: Sarah Woolley, Ph.D.
- “Interrogating the role of sex steroid hormones in memory circuitry” Department of Psychological and Brain Sciences, **University of California, Santa Barbara**, (2015, April). Host: Miguel Eckstein, Ph.D.
- “Interrogating the role of sex steroid hormones in memory circuitry” Department of Psychology, **University of Michigan**, (2015, March). Host: Martin Sarter, Ph.D.
- “Relationship between reproductive senescence and the aging of memory circuitry” Department of Medicine, Division of Women’s Health Cross-disciplinary Women’s Health Seminar Series, **Brigham and Women’s Hospital** (2015, January). Host: Tamarra James-Todd, Ph.D.
- “Use of functional MRI to investigate the role of gonadal hormones in brain function” Men’s Health: Aging and Metabolism Unit, Division of Endocrinology, **Harvard Medical School** (2014, November). Host: Shehzad Basaria, M.D.
- “Use of PET imaging and functional MRI and to investigate the role of gonadal hormones in brain function” BRI Functional and Molecular Neuroimaging Salon, **Brigham and Women’s Hospital** (2014, September). Host: Emily Stern, M.D.
- “Early chromosomal and neural markers of aging in mid-life men and women: A lifespan perspective” Center for Depression, Anxiety and Stress Research, **McLean Hospital** (2014, June). Host: Diego Pizzagalli, Ph.D.
- “Chromosomal and neural markers of aging in mid-life men and women: A lifespan perspective” Psychiatric Genetics and Translational Research Seminar, **Massachusetts General Hospital** (2014, May). Host: Jordan Smoller, M.D., Sc.D.
- “Chromosomal and neural markers of aging in mid-life men and women: A lifespan perspective” Research Initiatives Seminar, **Brigham and Women’s Hospital** (2014, January). Host: Hadine Joffe, M.D., M.Sc.
- “Estrogen’s role in shaping prefrontal cortical function” Neuroscience Seminar Series, **UCSF Center for Neurobiology and Department of Psychiatry** (2012, November). Host: Dhakshin Ramanathan, M.D., Ph.D.

- “Estrogen use and telomere attrition in post-menopausal women” Building Interdisciplinary Research Careers in Women’s Health (BIRCWH) Seminar, **UCSF School of Medicine** (2012, September). Hosts: Monica Gandhi, M.D. and Ruth Greenblatt, M.D.
- “Pharmacoeocrinology and the brain: Why estrogen’s influence on neurochemistry matters for women’s health.” **Massachusetts Neuropsychological Society**, Boston, MA. (2011, November). Host: Mary Coakley-Welch, Ph.D.
- “Estrogen and the Brain.” Seminar given at the **30th Annual Renaissance Weekend**, Charleston, SC. (2010, December) Host: Ambassador Philip Lader, J.D., Ph.D. and Linda Lader, M.Div.
- “Individual differences in cognition.” **Google**, Mountainview, CA. (2010, May) ([link](#)) Host: Peter Jin Hong
- “A women's health approach to frontal lobe function.” **Smith College**, Northampton, MA. (2009, September) Hosts: Mary Harrington, Ph.D. and President Carol Christ, Ph.D.

CONFERENCE PRESENTATIONS (POSTERS, TALKS & SYMPOSIA)

2016

1. **Jacobs E.G.***, Goldstein J.M.*, Morrison J., Frick K. (May, 2016) “Early cellular, synaptic, and circuit-level biomarkers of sex differences in memory decline” **Symposium and Talk** given at the Organization for the Study of Sex Differences (Society for Women’s Health Research), Philadelphia, PA. ***Co-Chair**

2015

2. **Jacobs E.G.**, Weiss B., Rentz D., Whitfield-Gabrieli S., Remington A., Aizley H., Klibanski A., Goldstein J.M. (December, 2015) Depletion of sex steroid hormones in mid-life alters hippocampal activity during verbal memory encoding: A population-based fMRI study of sex differences in memory decline. Poster presented at the 54th Annual Meeting of the American College of Neuropsychopharmacology, Hollywood, FL. ***Selected as top 5% of posters *Recorded as a “voice poster”**
3. Gallen C.L., Hwang K., Chen A.J., **Jacobs E.G.**, Lee T.R., D’Esposito M. (October, 2015) Influence of selective attention on brain network reconfiguration during working memory. presented at the 45th Annual Meeting of the Society for Neuroscience, Chicago, IL.
4. **Jacobs E.G.**, Weiss B., Whitfield-Gabrieli S., Remington A., Aizley H., Goldstein J.M. (October, 2015) Reproductive aging modulates working memory-related neural activity in women: Implications for sex differences in memory circuitry aging. Poster presented at Brigham and Women’s Hospital’s “Discover Brigham” Research Symposium.
5. Zhu A., Pasternak O., Lyall A., Makris N., **Jacobs E.G.**, Weiss B., Shenton M.E., Goldstein J.M., Kubicki M. (April, 2015) Impact of sex on white matter integrity in aging of the memory circuitry. Poster presented at Harvard Medical School’s Annual Mysell Research Day, Boston, MA.

2014

6. **Jacobs E.G.**, Weiss B., Whitfield-Gabrieli S., Klibanski A., Goldstein J.M. (December, 2014) Reproductive aging modulates working memory-related neural activity in women. **Talk** and poster presented at the 53rd Annual Meeting of the American College of Neuropsychopharmacology, Phoenix, AZ. **Featured presentation in the “Hot Topics” Symposium.**
7. **Jacobs E.G.**, Weiss B., Whitfield-Gabrieli S., Klibanski A., Goldstein J.M. (November, 2014) The depletion of sex steroid hormones during the menopausal transition is related to altered prefrontal and hippocampal signaling during working memory and memory encoding. **Talk** presented at the 44th Annual Meeting of the Society for Neuroscience, Washington, DC.

8. **Jacobs E.G.**, Weiss B., Whitfield-Gabrieli S., Klibanski A., Goldstein J.M. (November, 2014) Reproductive aging is associated with altered prefrontal and hippocampal signaling during working memory. Poster presented at the National Institutes of Health 11th Anniversary ORWH Interdisciplinary Women's Health Research Symposium, Washington, DC. *Published in Journal of Women's Health, 23(10):849-877.*
9. **Jacobs E.G.**, Weiss B., Whitfield-Gabrieli S., Klibanski A., Goldstein J.M. (September, 2014) Reproductive aging modulates working memory-related neural activity in women. Harvard Medical School and Brigham and Women's Hospital Annual Women in Medicine and Science Symposium, Boston, MA.
10. **Jacobs E.G.**, Whitfield-Gabrieli S., Weiss B., Klibanski A., Goldstein J.M. (August, 2014) The depletion of sex steroid hormones during the menopausal transition is related to altered prefrontal cortex signaling during working memory. **Talk** given at the 44th Annual Meeting of the International Society of Psychoneuroendocrinology, Montreal, Canada. **Featured presentation in the "Young Investigators" symposium.**
11. **Jacobs E.G.**, Whitfield-Gabrieli S., Weiss B., Klibanski A., Goldstein J.M. (April, 2014) The depletion of sex steroid hormones during the menopausal transition is related to altered prefrontal cortex signaling during working memory. Poster presented at the Organization for the Study of Sex Differences (Society for Women's Health Research), Minneapolis, MN.
12. **Jacobs E.G.**, Weiss B., Whitfield-Gabrieli S., Klibanski A., Goldstein J.M. (March, 2014) Reproductive aging is associated with altered prefrontal and hippocampal signaling during verbal encoding and working memory: Initial characterization of a 50-year follow-up study of a prenatal cohort. Poster presented at the 21st Annual Meeting of the Cognitive Neuroscience Society, Boston, MA.

2013

13. **Jacobs E.G.**, Holsen L.M., Lancaster K., Remington A., Buka S., Whitfield-Gabrieli S., Klibanski A., Goldstein J.M. (December, 2013) Gonadal hormone regulation of stress circuitry activity in healthy women is disrupted in Major Depressive Disorder. Poster presented at the 52nd Annual Meeting of the American College of Neuropsychopharmacology, Hollywood, FL.
14. **Jacobs E.G.** (September, 2013) Sex-specific chromosomal and neural markers of aging in mid-life men and women: A lifespan perspective. Abstract included in the Harvard Medical School and Brigham and Women's Hospital Annual Women in Medicine and Science Symposium, Boston, MA.

2012

15. **Jacobs E.G.**, Laguerta E., Dang L., Jagust W., Weinberger D., D'Esposito M. (2012, October) Estradiol and COMT alter striatal dopamine release and working memory function in women: Direct evidence from [11C]-raclopride PET and fMRI imaging. Poster presented at the 42nd Annual Meeting of the Society for Neuroscience, New Orleans, LA.
16. **Jacobs E.G.**, Laguerta E., Dang L., Jagust W., D'Esposito M. (2012, May) Estradiol and COMT alter striatal dopamine release in women. Poster presented at the 67th Annual Meeting of the Society for Biological Psychiatry, Philadelphia, PA.
17. **Jacobs E.G.** (2012, April) Behavioral and hormonal interventions buffer against accelerated cell aging in at-risk women. **Talk** given at the 10th Annual Meeting of the Robert Wood Johnson Foundation, Princeton, NJ.

2011

18. **Jacobs E.G.** (2011, November) *Symposium* – Cognitive and behavioural dysfunction in ageing: Role of sex hormones; with Pauline Maki, Ph.D., Paul Newhouse, M.D. and Julie Dumas, Ph.D. **Talk** given at the 11th Annual International College of Geriatric Psychopharmacology Meeting, Irvine, CA.
19. **Jacobs E.G.** (2011, May) From parity in science to improvements in health. **Talk** given at the 9th Annual Meeting of the Robert Wood Johnson Foundation, Bethesda, MD.
20. LeWinn, K., **Jacobs E.G.**, Boyce, T.W., D'Esposito, M (2011, March). *Symposium* – Childhood socioeconomic disadvantage and mental health: Psychological, physiological and neurobiological mechanisms. Society for Research in Child Development Biennial Meeting, Montreal, Canada.

21. John, N., **Jacobs E.G**, Mendoza-Denton, R., Francis, D.D. (2011, January). Subjective social status predicts immune function in a young adult cohort. Poster presented at the Annual Meeting of the Society of Personality and Social Psychology, San Antonio, Texas.

2010

22. **Jacobs E.G**, D'Esposito, M (2010, November). Estrogen alters top-down modulation of sensory processing. Poster presented at the 40th Annual Society for Neuroscience Meeting, San Diego, CA.
23. Vytlačil, J., **Jacobs E.G**, D'Esposito, M (2010, November). Estrogen and COMT polymorphisms interact to affect resting state connectivity with dopaminergic midbrain regions. Poster presented at the 40th Annual Society for Neuroscience Meeting, San Diego, CA.
24. Cohen, J., **Jacobs E.G**, D'Esposito, M (2010, November). The connectivity of intrinsic, task-independent networks during working memory. Poster presented at the 40th Annual Society for Neuroscience Meeting, San Diego, CA.

2009

25. **Jacobs E.**, D'Esposito, M (2009, October). Estrogen shapes dopamine-dependent cognitive processes in prefrontal cortex. Poster presented at the 39th Annual Society for Neuroscience Meeting, Chicago, IL.
26. **Jacobs E.**, D'Esposito, M (2009, June). *Symposium* – Individual differences in cognition: How a person's hormonal state and genetic background impacts prefrontal cortical function. **Talk** given at the 15th Annual meeting of the Organization for Human Brain Mapping, San Francisco, CA.
27. **Jacobs E.**, D'Esposito, M (2009, June). Individual differences in cognition: How a person's hormonal state and genetic background impacts prefrontal cortical function. Poster presented at the 15th Annual meeting of the Organization for Human Brain Mapping, San Francisco, CA.
28. Song, S., Turner, G., **Jacobs, E.**, Nycum, T., D'Esposito, M., Chen, A. (2009, June). Attention reduces variability of goal-relevant perceptual representations within visual association cortex. Poster presented at the 15th Annual meeting of the Organization for Human Brain Mapping, San Francisco, CA.
29. **Jacobs, E.**, Cools, R., D'Esposito, M. (2009, January). Individual differences in cognition: The role of COMT genotype and estrogen in frontal lobe function. Poster presented at the 5th International Imaging Genetics Conference, Irvine, CA.

2008

30. **Jacobs, E.** (2008, August). Genetic and hormonal influences on prefrontal cortical function. **Talk** given at the 5th Annual Bay Area Memory Meeting, Davis, CA.
31. **Jacobs, E.**, Cools, R., D'Esposito, M. (2008, April). Genetic and hormonal influences on prefrontal cortical function. Poster presented at the 15th Annual Meeting of the Cognitive Neuroscience Society, San Francisco, CA.
32. **Jacobs, E.**, D'Esposito, M. (2008, April). Women's health from a genetic and endocrine perspective. **Talk** given at the Annual Stanford-Berkeley Cognitive Psychology Symposium, Stanford, CA.

Pre-2008

33. Wraga, M., Helt, M., Duncan, L.E., & **Jacobs, E.** (2006, November). Altering test instructions to improve women's spatial cognition performance. Poster presented at the 47th Annual Meeting of the Psychonomic Society, Houston, TX.
34. Wraga, M., **Jacobs, E.**, Sullivan, K., & Uykai, E. (2006, April). Neural substrates of two classes of egocentric mental transformations. Poster presented at the 13th Annual Meeting of the Cognitive Neuroscience Society, San Francisco, CA.
35. **Jacobs, E.**, Duncan, L.E., Helt, M., & Wraga, M. (2005, January). Stereotype threat, gender, and mental rotation performance. Poster presented at the Sixth Annual Meeting of the Society for Personality and Social Psychology, New Orleans, LA.

36. Helt, M., **Jacobs, E.**, Sullivan, K., & Wraga, M. (2005, January). fMRI study of women's enhanced spatial cognition performance via positive stereotype. Poster presented at the Sixth Annual Meeting of the Society for Personality and Social Psychology, New Orleans, LA.
37. Cools, R., **Jacobs, E.**, Altamirano, L., Sheridan, M., Kelley, E., D'Esposito, M. (2005, November). Dopamine D2 receptor stimulation potentiates BOLD activity in the striatum during attentional switching in visual working memory. Poster presented at the Society for Neuroscience Conference, Washington D.C.
38. **Jacobs, E.**, Wraga, M., Duncan, L., & Church, J. (2004, April). Neural correlates of enhanced spatial cognition performance in men. Presented on Capital Hill for the Council on Undergraduate Research, Washington DC.
39. Wraga, M., **Jacobs, E.**, Duncan, L., & Church, J. (2004, April). fMRI study of men's enhanced spatial cognition performance during stereotype threat. Poster presented at the 11th Annual Meeting on the Cognitive Neuroscience Society, San Francisco, CA.
40. Wraga, M., Helt, M., Duncan, L., **Jacobs, E.** (2004, January). Limits to improving women's spatial cognition performance within a positive stereotype context. Poster presented at the Society for Personality and Social Psychology Meeting, New Orleans, LA

TEACHING

- **University of California, San Francisco, School of Medicine** Lecturer, Essential Core Social and Behavioral Science Course (2010) (Themes: *Race and Bias in Medicine; Biopsychosocial Model in Medicine*)
- **University of California, Berkeley** Public Health 39G: *Unnatural Causes...Is Inequality Making Us Sick?* Co-taught with Darlene Francis and Kat Saxton. (2009 & 2010)
- **University of California, Berkeley** Molecular and Cellular Biology 61: *Mind, Brain & Behavior*. Graduate Instructor (2006)
- **University of California, Berkeley** Molecular and Cellular Biology MCB 60: *Drugs and the Brain*. Graduate Instructor (2005)

- **Mentoring** (sample)

<u>Brandon Fluegel</u>	Supervised on fMRI data acquisition and analyses. (2014-present) Currently a PhD student at <i>Old Dominion University</i> .
<u>Blair Weiss</u>	Supervised on integrating neuroendocrine data into fMRI analyses. (2013-present) Currently a research technician in the lab.
<u>Katie Lancaster</u>	Supervised on fMRI data collection and analysis. (2012-2013) Currently a PhD student at <i>University of Virginia</i> .
<u>Julia Longenecker</u>	Supervised on fMRI data collection and analysis. (2012-2013) Currently a PhD student at <i>University of Minnesota</i> .
<u>Elaine LaGuerta</u>	Supervised on raclopride-PET and pharmacology research. (2009-2012) Completed her graduate degree at <i>UC Berkeley</i> .
<u>Katie Cheng</u>	Supervised on the creation of an in-house gene database. (2008-2010) Became a research technician with Prof. Vinon Menon, <i>Stanford University</i> .
<u>Jared Torre</u>	Mentored on social neuroscience theory, fMRI design and analysis. (2008-2009) Completed his PhD at <i>UCLA</i> and was an <i>NSF Graduate Research Fellow</i> .
<u>Erin Thompson</u>	Mentored on cognitive neuroscience methods. (2007) Completed her graduate degree at <i>University College London</i> .

SERVICE

Institutional Service *(representative)*

- Radcliffe Institute for Advanced Studies/Harvard University working group, “Sex-Dependent Neurodiscovery and CNS Therapeutics” (Spring 2015)
- Harvard University Center on the Developing Child working group, “Science of Adversity and Resilience” (Fall 2014)
- Helen Wills Neuroscience Institute Executive Committee, UC Berkeley (2006-2010)
- Smith President-appointed biotechnology advisory panel, “How Can the Academy and the Corporate World Work Together to Solve the Scientific and Medical Challenges Facing our Society?” with industry leaders in biotech and pharmaceuticals. Silicon Valley (Spring 2007)

Editorial Board

Review Editor, *Frontiers in Human Neuroscience*

Reviewer

American Journal of Neuroradiology; Archives of Neurology; Behavioral Brain Research; Frontiers in Neuroscience; Hormones and Behavior; Journal of Cognitive Neuroscience; Neuropsychologia; Neuropsychopharmacology; Neuroscience; Neuroscience and Biobehavioral Reviews; Physiology and Behavior; Proceedings of the National Academy of Sciences; Psychiatry Research; Psychoneuroendocrinology; Psychopharmacology; The French National Research Agency (L'Agence Nationale de la Recherche)

Membership

2005 – present Society for Neuroscience
2005 – present Cognitive Neuroscience Society
2009 – present Organization for Human Brain Mapping
2012 – present Society for Biological Psychiatry
2013 – present American College of Neuropsychopharmacology (*travel awardee/guest member*)

Media and Public Outreach *(sample)*

Scientific American Mind, “Is Estrogen the New Ritalin?” by Erik Vance. (2010, May) ([link](#))

Berkeley Science Review, “Hot flashes with a chance of brainstorms” by Ginger Jui. (2010, November) ([link](#))

Smith Quarterly, “Estrogen and Memory” by Christina Barber-Just. (2010, September) ([link](#))

Robert Wood Johnson Foundation, “Gender bias in research ignores estrogen's effect on the brain” by Sheree Crute (2011, April) ([link](#))

Daily Californian, “Study highlights male bias in animal studies” by Claire Perlman (2011, April) ([link](#))

National Science Foundation ([link](#))

California Magazine, “Counting the days” by Anne Pinckard (2011, June) ([link](#))

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