

Emily G. Jacobs

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RESEARCH DESCRIPTION

My laboratory uses brain imaging, endocrine, and computational approaches to investigate gonadal hormones' influence on the structural and functional architecture of the human brain. Major initiatives include the study of endocrine aging during the midlife transition to menopause, pharmacological studies of gonadal hormone suppression, and dense-sampling studies across the diurnal cycle, menstrual cycle and pregnancy. More broadly, my group is focused on raising awareness of data gaps that place a disproportionate burden on women. Per a 2024 report by the World Economic Forum, eliminating the gender data gap in science will yield a \$1T return on investment – annually. My lab advocates on this topic in national and international forums. For a complete description of current projects, see: <https://jacobs.psych.ucsb.edu>.

EDUCATION

- 2004-2010 **University of California, Berkeley**
Ph.D. in Neuroscience
- 2000-2004 **Smith College**
B.A. in Neuroscience, Phi Beta Kappa, Sigma Xi
- 2003-2004 **Harvard College**
Visiting Undergraduate Students Program

APPOINTMENTS & EXPERIENCE

- 2021-present **Associate Professor, University of California, Santa Barbara**
Director, Ann S. Bowers Women's Brain Health Initiative
Department of Psychological and Brain Sciences
Interdepartmental Graduate Program in Dynamical Neuroscience
Neuroscience Research Institute
Center for Feminist Futures
- 2023-present **Adjunct Faculty, Buck Institute**
- 2021-present **Adjunct Senior Research Scientist, Sansum Diabetes Research Institute**
- 2016-2021 **Assistant Professor, University of California, Santa Barbara**
- 2013-2016 **Instructor in Psychiatry, Harvard Medical School**
Associate Scientist, Department of Medicine, Division of Women's Health,
Brigham & Women's Hospital
- 2012-2013 **Stuart T. Hauser CRTP Fellow, Harvard Medical School**
Clinical Research Training Program

- 2010-2012 **Robert Wood Johnson Foundation Health and Society Scholar**
University of California, San Francisco
- 2004-2010 **Helen Wills Neuroscience Institute, UC Berkeley**
Ph.D. Advisor: Mark D'Esposito, M.D.
- Spring 2003 **Institute of Cognitive Neuroscience, University College London**
Mentor: Sarah-Jayne Blakemore, Ph.D.
- 2001-2003 **Center for Developmental Cognitive Neuroscience, UMass Medical School**
Mentor: Adele Diamond, Ph.D.

FUNDING

Current

- 2023-Present "Impact of oral contraceptives on the developing adolescent brain"
Open Collective Foundation / Repro Grants
\$70,400 2-year award
Role: Faculty Lead (Staff Scientist PI: Caitlin Taylor)
- 2023-Present "Organizational effects of sex steroid hormones on the maternal brain"
Open Collective Foundation / Repro Grants
\$51,000 2-year award
Role: Faculty Lead (Student PI: Hannah Grotzinger)
- 2023-Present The Ann S. Bowers Women's Brain Health Initiative
Noyce Trust
\$40,822,000 endowment (26.6M to the WBHI Administrative Core at UCSB led by Emily Jacobs; 6.7M to the WBHI Data Coordinating Center at Stanford University led by Russ Poldrack; and 7.5M to the WBHI AI Center of Excellence co-led by Nina Miolane and Amy Kuceyeski)
Role: Director / PI
- 2023-Present The Ann S. Bowers Women's Brain Health Initiative
Noyce Initiative
\$2,200,000 multi-year award / current use funds (with an additional \$1.1M to our Data Coordinating Center at Stanford University led by Russ Poldrack)
Role: PI
- 2022-2023 "The University of California Women's Brain Initiative – Leveraging AI to Advance Women's Health"
Noyce Initiative: UC Partnerships in Computational Transformation
\$202,134 18-month pilot award
Role: PI
- 2022-2023 "Aging in America: Leveraging the Frontiers of Aging Research to Promote Healthier Lives and Empowered Communities"
Critical Issues in America
\$25,000 1-year award
Role: PI with Co-PI's Nicole Albada and Joel Rothman

2022 "Endocrine aging and dementia risk"
Remember When Trust
\$36,169 1-year award
Role: PI

2020-2025 "Impact of gonadal hormone suppression on regional and global brain architecture and cognition"
National Institutes of Health R01-AG063843
\$4,798,062, 5-year award
Role: PI (Co-PI: Matt Panizzon)

2020 "Impact of female reproductive history on Alzheimer's disease risk"
California Department of Public Health 19-10612
\$157,365, 1-year award
Role: Co-I and Site PI, UCSB subaward: \$65,300

2020 "Organizational effects of sex steroid hormones on the maternal brain"
University of California, Santa Barbara Academic Senate Grant
\$13,905, 1-year award
Role: PI

2019-2020 "Identifying the impact of sex hormone suppression on brain morphology"
Hellman Family Fellows Fund
\$40,000, 1-year award
Role: PI

2019-2020 "Impact of hormone-based medication on human brain structure and function"
University of California, Santa Barbara Academic Senate Grant
\$20,000, 1-year award
Role: PI

2018-2020 "Sex differences in dopamine neurotransmission in the human brain: A molecular PET imaging study"
Brain and Behavior Research Foundation
\$70,000, 2-year award
Role: PI

2018-2022 "Investigating the impact of sex, menopausal status and +APOE4 on the neural correlates of episodic memory in healthy middle aged adults."
Canadian Institutes of Health Research (PI: Natasha Rajah)
Role: Consultant, 4-year award

2016-2021 "Cognitive Control in Anxiety: The Role of Ovarian Hormones"
National Institutes of Health R01 MH108511 (PI: Jason Moser)
Role: Consultant, 5-year award

Pending

Under Review "Sex hormones, spatial navigation, and the aging brain"
Role: PI, 5-year award
MPI: Elizabeth Chrastil, Co-I: Mary Hegarty
National Institutes of Health
\$4,974,865 5-year award

Under Review "Estrous cycle modulation of structural and functional plasticity in the mammalian hippocampus "
 Role: Co-PI, 5-year award
 PI: Michael Goard
 National Institutes of Health
 \$2,694,365 5-year award

Under Review "Improving diversity, inclusion, and representation throughout research in neurodegeneration: A step towards improving long term outcomes for all "
 Role: Co-PI, 5-year award
 PI: Mallar Chakravarty, McGill University
 New Frontiers in Research Fund - Transformation
 \$24,000,000 6-year award

Under Review "Brain iron and executive dysfunction in adolescent females: A multi-timescale, precision longitudinal study"
 Role: Co-PI 5-year award
 PI: Bart Larsen and Damien Fair (University of Minnesota)
 National Institutes of Health

Under Review "The Women's Health Initiative Memory Study (Young) on Alzheimer's Disease (WHIMSY-AD) "
 Role: Consultant 5-year award
 PI: Rachel Buckley (Harvard) and Suzanne Baker (Lawrence Berkeley National Lab)
 National Institutes of Health

Under Review "Coupling maternal brain architecture with peripheral neuroimmune responses across the peripartum period"
 Role: Co-PI, 5-year award
 PI: Ina Stelzer (UCSD)
 National Institutes of Health

Under Review "The Impact of Sex Hormones on the Neural Correlates of Sleep-Dependent Memory during Reproductive Age and Menopause Transition"
 Role: Co-PI 5-year award
 PI: Sara Mednick and Arielle Tambini (UC Irvine)

Under Review "Developing Mobile Neuroimaging Technology to Promote the Longitudinal Study of the Female Aging Brain"
 Role: Co-PI 5-year award
 PI: Jelle Veraart (NYU School of Medicine)

Under Review "HerNeuroDx: Redefining dementia care for women, one diagnosis at a time"
 PI: Kaitlin Casaletto (UCSF)
 Role: Consultant
 ARPA-H Sprint for Women's Health

Under Review	<p>“MenoMIND – Developing an online registry of peri-menopause and early markers of Alzheimer’s disease: a remote platform assessing blood biomarkers and digital measures of cognition and behavior”</p> <p>PI: Rachel Buckley (Harvard)</p> <p>Role: Key Personnel</p> <p>ARPA-H Sprint for Women’s Health</p>
Under Review	<p>“The Longitudinal Menopause Project”</p> <p>PI: Rachel Buckley (Harvard)</p> <p>Role: Key Personnel</p> <p>ARPA-H Sprint for Women’s Health</p>
Under Review	<p>“Continuous Progesterone Monitoring for IVF Patients”</p> <p>PI: Tod Kippin (UCSB)</p> <p>Role: Consultant</p> <p>ARPA-H Sprint for Women’s Health</p>
Under Review	<p><i>“Sex- and Gender-Based Contributors to Vulnerability to Alzheimer’s Disease: A Multimodal Imaging Study”</i></p> <p>PI: Carolyn Fredericks (Yale)</p> <p>Role: Consultant</p> <p>National Institutes of Health R01</p>

Previous

2018-2019	<p>“Spatial navigation, sex hormones, and the aging brain”</p> <p>California Nanosystems Institute Challenge Grant</p> <p>\$50,000, 1-year award</p> <p>Role: PI</p>
2018-2019	<p>“Impact of reproductive aging on spatial navigation”</p> <p>University of California, Santa Barbara Academic Senate Grant</p> <p>\$15,000, 1-year award</p> <p>Role: PI</p>
2018	<p>“The role of sex hormones in the aging brain”</p> <p>University of California Regents Junior Faculty Fellowship</p> <p>\$7500, 1-year award</p> <p>Role: PI</p>
2013-2016	<p>National Institutes of Health K12 HD051959 Career Development Award</p> <p>Building Interdisciplinary Research Careers in Women’s Health (BIRCWH)</p> <p>\$300,000, 3-year award</p> <p>Role: PI</p>
2012	<p>National Institutes of Health MH016259</p> <p>NIH/Harvard Medical School Stuart T. Hauser CRTP Fellowship</p> <p>\$88,680, 2-year award</p> <p>Role: PI</p>
2010-2012	<p>Robert Wood Johnson Foundation Health and Society Fellowship</p>

\$200,850, 2-year award

Role: PI

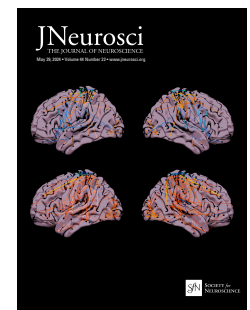
HONORS

2022	Science News Global SN 10: Ten Scientists to Watch
2019	Hellman Fellow
2017	Brain and Behavior Research Foundation NARSAD Young Investigator
2016	National Academy of Sciences "Frontiers of Science" Kavli Fellow
2013-2016	National Institutes of Health "BIRCWH" Women's Health Scholar
2014	Organization for the Study of Sex Differences Travel Award
2013	The American College of Neuropsychopharmacology Early Career Travel Award
2012	Harvard Medical School Stuart T. Hauser Clinical Research Fellow
2010-2012	Robert Wood Johnson Foundation Health and Society Scholar
2006-2009	National Science Foundation Graduate Research Fellow
2009	Elizabeth Roboz Einstein Fellow in Neuroscience, UC Berkeley
2006	Patricia Goldman-Rakic Fellow for Women in Neuroscience, UC Berkeley
2002, 2003	Howard Hughes Medical Institute Research Fellowship

PEER-REVIEWED PUBLICATIONS

+Trainees

1. +Pritschet L., +Taylor C, Cossio D., Faskowitz J, Santander T., Handwerker D., +Grotzinger H., Layher E., Chrastil E., and Jacobs, E.G. (In press) Neuroanatomical changes observed over the course of a human pregnancy. ***Nature Neuroscience***
2. +Murata E, +Pritschet L., Santander T., Grotzinger H., and Jacobs, E.G. (In press) Circadian and circalunar rhythms tied to changes in global brain morphology in a densely sampled male. ***The Journal of Neuroscience***
3. Konishi K., Jacobs E.G., Aroner S., De Vivo I., Smith B., Scribner-Weiss B., Makris N., Seitz-Holland J., Remington A., Aizley H., Kubicki M., Goldstein J.M. (In press) Leukocyte telomere length and memory circuitry and cognition in early aging: Impact of sex and menopausal status. ***Hormones and Behavior***
4. Rizor E., Babenko V., Dundon N., Beverly-Aylwin R., Stump A., Hayes M., Herschenfeld-Catalan L, Jacobs E.G., Grafton ST. (2024) Menstrual cycle-driven hormone concentrations co-fluctuate with white and grey matter architecture changes across the whole brain. ***Human Brain Mapping*** *Covered in ***Science*** (research spotlight) *Covered in ***National Geographic***
5. +Grotzinger H, +Pritschet L., Shapurenka P., Santander T., Murata E., and Jacobs, E.G. (2024) Diurnal fluctuations in steroid hormones tied to variation in intrinsic functional connectivity in a densely sampled male. ***The Journal of Neuroscience***.
6. Jacobs E.G. (2023) Bridging the neuroscience gender divide. ***Nature***.
7. Jacobs E.G. (2023) Leveraging precision neuroimaging to advance women's brain health. ***Nature Mental Health***.
8. Martinez-Garcia M., Jacobs, E.G., de Lange A., Carmona S. (2024) Advancing the neuroscience of pregnancy. ***Nature Neuroscience***.



9. [†]Pritschet L. and Jacobs, E.G. (2024) Precision Neuroimaging. *Encyclopedia of Human Brain*, 2nd Edition
10. Heller C., Gullmar D., Koeppel C., Rojczyk P., Stein H., [†]Taylor C., Jacobs E.G., Derntl B., Kikins Z., Wlatter M, Croy I. Hippocampal volume and affect in response to fluctuating estrogens in menstrual cycle irregularity: A longitudinal single-subject study. *npj Women's Health*.
11. Petersen N., Beltz A., Casto K., [†]Taylor C., Jacobs E.G., Sundstrom-Poromaa, Pletzer B., (2023) Toward a more comprehensive neuroscience of hormonal contraception. *Nature Neuroscience*.
12. Eliot L., Beery A., Jacobs E.G, LeBlanc H. Maney D., McCarthy M. (2023) Why and how to account for sex and gender in brain and behavioral research. *The Journal of Neuroscience*.
13. Crestal A., Rajagopal S., Pasvanis S., Loparco S., Olsen R., Einstein G., Jacobs E.G., Rajah M. (2023) Menopause status and within group differences in chronological age affect the functional neural correlates of spatial context memory in middle-aged females. *The Journal of Neuroscience*.
14. [†]Murata E., & Jacobs E.G. (2024) The Menstrual Cycle: A deep dive into one of our body's superpowers and what can cause it to malfunction. *Frontiers for Young Minds*
15. [†]Taylor C., Furman D.J, Berry A.S., White R.L., Jagust W.J., D'Esposito M., Jacobs, E.G. (2023) Striatal dopamine synthesis and cognitive flexibility differ between hormonal contraceptive users and non-users. *Cerebral Cortex*.
16. Greenwell S., Faskowitz J., [†]Pritschet L., Santander T. Jacobs E.G., Betzel R. (2023) High-amplitude network co-fluctuations linked to variation in hormone concentration over menstrual cycle. *Network Neuroscience*.
17. Meyers A., [†]Taylor C., Jacobs E.G, Miolane N (2023) Geodesic Regression Characterizes 3D Shape Changes in the Female Brain During Menstruation. *ICCV Computer Vision for Automated Medical Diagnosis*
18. Louis C, Jacobs E.G., D'Esposito M., Moser J. (2023) Estradiol and the catechol-o-methyltransferase gene interact to predict working memory performance: A replication and extension. *The Journal of Cognitive Neuroscience*.
19. Gallen C., Hwang K., Chen A., Jacobs, E.G., Lee T., D'Esposito M. (2023) Influence of goals on modular brain network organization during working memory *Frontiers in Behavioral Neuroscience*.
20. Bernier R.A., Banks S.J., Panizzon M., Andrews M., Jacobs E.G., Galasko D., Shepherd A.L., Akassoglou K., Sundermann E.E. (2021) The neuroinflammatory marker, sTNFR2, relates to worse cognition and Tau in women across the AD spectrum. *Alzheimer's & Dementia: Diagnosis, Assessment & Disease Monitoring*.
21. [†]Pritschet L., [†]Taylor C., Santander T., Jacobs E.G. (2021) Applying dense-sampling methods to reveal dynamic endocrine modulation of the nervous system. *Current Opinions in Behavioral Science*. Special Issue on Deep Imaging, edited by: Caterina Gratton and Rodrigo Braga.
22. De Fillippe E., Uribe C., Avila-Varela D., Martinez-Molina N., [†]Pritschet L., Santander T., Kringelbach M, Jacobs E.G., Deco G., Escrichs A. (2021) The menstrual cycle modulates whole-brain turbulent dynamics. *Frontiers in Human Neuroscience*.
23. [†]Yu S., Boone A., He C., Davis R., Hegarty M., Chrastil E., Jacobs E.G. (2021) Age related changes in spatial navigation are evident by midlife and differ by sex. *Psychological Science*. **Featured Article, This Week in Psychological Science*

24. Hegarty M., He C., Boone A., *Yu S., Jacobs E.G., Chrastil, E. (2021) Understanding individual differences in wayfinding strategies. **Topics in Cognitive Science**.
25. *Taylor C., *Pritschet L., & Jacobs E.G. (2021) 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 (Elsevier Press)** Special Issue “Beyond Sex Differences: A Spotlight on Women's Brain Health”
26. de Lange AG., Jacobs E.G., Galea LAM. (2021) The scientific body of knowledge – whose body does it serve? A spotlight on women’s brain health. Editorial in **Frontiers in Neuroendocrinology**. Special Issue “Beyond Sex Differences: A Spotlight on Women's Brain Health”
27. Gloe L, Kashy D, Jacobs E.G., Klump K. Moser J. (2021) Examining the role of estradiol in the association between worry and working memory across the menstrual cycle. **Psychoneuroendocrinology**.
28. Mueller J., *Pritschet L., Santander T., Taylor C., Grafton S.T. *Jacobs E.G., *Carlson J.M. (2021) Dynamic community detection reveals transient reorganization of functional brain network subcommunities across a female menstrual cycle. **Network Neuroscience**
*Co-senior authors
29. *Fitzgerald M., *Pritschet L., Santander T., Grafton S.T., Jacobs E.G. (2020) Cerebellar network organization across the human menstrual cycle. **Scientific Reports** 10:20732.
30. *Pritschet L., Santander T., *Taylor C., Layher E., *Yu S., Miller M.B., Grafton S.T., Jacobs E.G. (2020) Functional reorganization of brain networks across the human menstrual cycle. **NeuroImage** 220:117091 *Cover Article
31. *Taylor C., *Pritschet L., Olsen R., Layher E., Santander T., Grafton S.T., Jacobs E.G. (2020) Progesterone shapes medial temporal lobe volume across the human menstrual cycle. **NeuroImage** 220:117125 *Editors’ Choice Ref: Stevens, J. S. (2020). Brain structural changes in sync with the cycle. *Science Translational Medicine*, 12(553).
32. Casaletto K, Lindbergh C. et al. (2020) Sexual dimorphism of physical activity on cognitive aging: Role of immune functioning. **Brain, Behavior, and Immunity** 88: 699-710.
33. Jacobs E.G. (2020) Why neuroscience needs girls: Gender diversity drives scientific discovery. **Frontiers for Young Minds** 8:37 doi:10.3389/frym.2020.00037
34. Konishi K, Cherkerzian S, Aroner S, Jacobs E.G. et al. (2020) Impact of BDNF and sex on maintaining intact memory function in early midlife. **Neurobiology of Aging** 88:137-149.
35. *Taylor C., *Pritschet L., *Yu S., Jacobs E.G. (2019) Applying a women’s health lens to the study of the aging brain. **Frontiers in Human Neuroscience** doi: 10.3389/fnhum.2019.00224
36. Konishi K, Cherkerzian S, Jacobs E.G., et al. (2019) Impact of adrenal hormones, reproductive aging, and major depression on memory decline in early midlife. **Brain Research** 1721(146303):1-14.
37. Seitz J, Kubicki M, Jacobs E.G., et al. (2018) Impact of sex and reproductive status on memory circuitry structure and function in early midlife using structural covariance analysis. **Human Brain Mapping** 40(4): 1221-1233



38. Jacobs E.G. and Goldstein J.M. (2018) The Middle-Aged Brain: Biological sex and sex hormones shape memory circuitry. *Current Opinions in Behavioral Science* 23:84–91 doi:10.1016/j.cobeha.2018.03.009
39. Jacobs E.G., Weiss B., Makris N., Whitfield-Gabrieli S., Buka S., Klibanski A., Goldstein J.M. (2017) Reorganization of functional networks in verbal working memory circuitry in early midlife: The impact of sex and menopausal status. *Cerebral Cortex* 27(5):2857-2870. PMID: 27178194.
40. Rentz D.M., Weiss B.K., Jacobs E.G., Cherkerzian S, Klibanski A, Remington A, Aizley H, Goldstein J.M. (2017) Sex differences in episodic memory in early midlife: Impact of reproductive aging. *Menopause* 24(4):400-408.
41. Jacobs E.G., Weiss B., Makris N., Whitfield-Gabrieli S., Buka S., Klibanski A., Goldstein J.M. (2016) Impact of sex and menopausal status on episodic memory circuitry in early midlife. *The Journal of Neuroscience*. 36(39):10163-10173 PMID: PMC5039260 ***Featured Article**
42. 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 PMID: PMC4289944
43. 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. PMID: PMC4156328
44. 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: PMC5287208
45. 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. PMID: PMC3572118 ***Faculty of 1000 selection**
46. John-Henderson 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
47. Jacobs E.G., D'Esposito M. (2011) Estrogen shapes dopamine-dependent cognitive function: Implications for women's health. *The Journal of Neuroscience*. 31(14):5286-5293. PMID: PMC3089976 ***Featured Article**
48. 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. *The Journal of Neuroscience*. 27(20):5506–5514 PMID: 1750757
49. 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 PMID: PMC2555429
50. 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

In progress:

51. Dhamala E, Galea L., Jacobs E.G., Ricard J., Uddin L., Yeo T., Holmes A. Considering the interconnected nature of social identities in psychiatric neuroimaging. (*In revision - Nature Neuroscience*)
52. Wolcott NS, Redman WT, Karpinska M., Jacobs EG, Goard MJ. The estrous cycle modulates hippocampal spine dynamics and spatial coding. (*In revision – Neuron*)
53. Heller C., Gullmar D., Koeppel C., Rojczyk P., Stein H., †Taylor C., Jacobs E.G., Derntl B., Kikins Z., Wlatter M, Croy I. Hormonal fluctuations shape whole-brain structural dynamics across the menstrual cycle: Insights from dense-sampling studies of females with and without endometriosis (*In revision – Nature Neuroscience*)
54. Serio B, Yilmaz D, Pritschet L, Grotzinger H, Jacobs E.G., Eickhoff SB, Valk SL. Exploring sex-specific neuroendocrine influences on the sensorimotor-association axis in single individuals (*In revision – Imaging Neuroscience*)
55. Barth C., Galea L., Jacobs E.G., Lee B., Westlye T., de Lange A. Menopausal hormone therapy and the female brain: leveraging neuroimaging and prescription registry data from the UK Biobank cohort. (*In revision - eLife*)
56. Wang J, Tambini A, Pritschet L, Taylor CM, Jacobs EG, Lapate RC. The intrinsic time tracker: Changes in entorhinal and hippocampal resting state functional connectivity patterns reflect temporal context. (*In prep*)
57. Pritschet L., Orchard E., Satterthwaite T., Shanmugan S., Jacobs EG. Endocrine modulation of the default mode network over the life course. (*Invited submission in prep for Trends in Cognitive Science*)
58. Jacobs, E.G. and Sacher J. Precision imaging of the menstrual cycle. (*Invited NeuroView in prep for Neuron*)
59. Jacobs, E.G. The new science of women’s brain health. (*Invited submission in prep for Science Advance*)
60. Pritschet L., Orchard E., Taylor C. Jordan K, WBHI Consortium, Jacobs, E.G. Looking back to move forward: The new science of women’s brain health. (*Invited research article submission in prep for Nature*)

DISTINGUISHED / KEYNOTE LECTURES

- “Dynamic endocrine modulation of the nervous system” [Keynote Lecture](#) 29th Annual meeting of the **Organization for Human Brain Mapping** (2023, July) Host: Mallar Chakravarty
- “Dynamic endocrine modulation of the nervous system” [Distinguished Lecture](#) Roger Brown Loucks Endowed Lectureship in the Neurophysiological Basis of Learning and Memory **University of Washington** (2024, March) Host: Ariel Rokem
- “Interrogating the role of sex hormones in the aging brain” [Distinguished Lecture Series](#) **Buck Institute** (2023, January) Host: Jennifer Garrison
- “The New Science of Women’s Brain Health” **Brain Health Presents** [Distinguished Lecture Series](#) (2023, April) Host: Jennifer Zientz
- “The brain as an endocrine organ” Exploring the Mind [Distinguished Lecture Series](#) **University of California, Davis** Center for Mind and Brain (2021, March) Host: George (Ron) Mangun, Ph.D.

- “Interrogating the role of sex hormones in the human brain” Keynote Speaker Larry L. Hillblom Foundation Brain Aging Symposium **University of California, San Francisco** (2020, September) Host: Joel Kramer, M.D.
- “Sex steroids and the aging brain – Applying a women’s health lens to cognitive neuroscience” Keynote Speaker Science and Gender Equality Symposium (“SAGE 2.0”) UKE, **Hamburg, Germany** (2018, March). Host: Sina Trautmann-Lengsfeld, Ph.D.

INVITED LECTURES

- “New Frontiers in Women’s Brain Health” **National Institutes of Mental Health** Seminar (Winter 2025)
- “New Frontiers in Women’s Brain Health” **University of Pennsylvania** Mahoney Institute of Neurosciences (MINS) Seminar Series (Spring 2025)
- “New Frontiers in Women’s Brain Health” **UC San Diego** Neuroscience Graduate Program Seminar Series (October 2024)
- “New Frontiers in Women’s Brain Health” **Oxford University** (2024, July)
- “New Frontiers in Women’s Brain Health” **Massachusetts Institute of Technology DHIVE** workshop (2024, June)
- “New Frontiers in Women’s Brain Health” **Stanford University** Women in Data Science: Health Frontiers (2024, May)
- “*Dynamic endocrine modulation of the nervous system*” **Cardiff University** Brain Research Imaging Centre (CUBRIC) Seminar Series (2024, April)
- “*The Ann S. Bowers Women’s Brain Health Initiative: A Trans-UC Neuroimaging Consortium to Advance Women’s Health Research*” **CAMH WomenMind Conference** (2024, April)
- “*Dynamic endocrine modulation of the nervous system*” **Cognitive Aging Summit IV** (2024, March)
- “*Dynamic endocrine modulation of the nervous system*” **University of North Carolina** Department of Psychiatry (2024, March)
- “New Frontiers in Women’s Brain Health” **UT Southwestern** Grand Rounds Ob/Gyn (2024, January)
- “*Dynamic endocrine modulation of the nervous system*” **UC Berkeley** Department of Psychology (2024, November)
- “The Ann S. Bowers Women’s Brain Health Initiative” **San Jose Tech Interactive** (2023, November) Host: UC Noyce Foundation
- “*Endocrine modulation of the nervous system*” **UC Berkeley Cognitive Neuroscience Area Seminar** (2023, November) Host: Silvia Bunge
- “*Dynamic endocrine modulation of the nervous system*” **Brain Body Interactions Seminar** (2023, April) Host: Zita Carvalho dos Santos, *Champalimaud Institute*

- “Applying dense-sampling methods to reveal dynamic endocrine modulation of the nervous system” **Whistler Scientific Workshop on Brain Functional Organization** (2023, February) Host: Tod Constable
- “Dynamic endocrine modulation of the nervous system” **UC Irvine’s Conte Center 10th Annual Symposium** (2023, February) Host: Tallie Baram, Ph.D.
- “Applying dense-sampling methods to reveal dynamic endocrine modulation of the nervous system” **University of Toronto Neurology Grand Rounds** (2022, November) Host: Gillian Einstein
- “Interrogating the role of sex hormones in the human brain” **University of Illinois Neuroscience Seminar Series** (2022, September) Host: Sepideh Sadaghiani
- “Applying dense-sampling methods to reveal dynamic endocrine modulation of the nervous system” **1st International Reproductive Aging Conference** (2022, June) Host: Jennifer Garrison
- “Interrogating the role of sex hormones in the human brain” **International Association for Premenstrual Disorders** (2022, May) Host: Tory Eisenlohr-Moul
- “Interrogating the role of sex hormones in the human brain” **University of California, Riverside Cognition and Cognitive Neuroscience Area** (2022, March) Host: Ilana Bennett
- “Interrogating the role of sex hormones in the human brain” **Medical College of Georgia, Department of Neurology** (2022, January) Host: Xin-Yun Lu, Ph.D.
- “The scientific body of knowledge – whose body does it serve?” **UCSB Library Pacific View Speaker Series** (2021, October) Host: Alex Regan
- “Interrogating the role of sex hormones in the human brain” **National University of Singapore, Centre for Sleep & Cognition** (2021, June) Host: Thomas Yeo, Ph.D.
- “Sex hormones shape the structural and functional architecture of the human brain” Grand Rounds **University of California, San Francisco Memory and Aging Center** (2021, May) Host: Bruce Miller, M.D.
- “Dense sampling approaches to illuminating sex hormones’ impact on the functional architecture of the human brain” Annual Meeting of the **Social and Affective Neuroscience Society** (2021, April) Host: Kyle Ratner, Ph.D.
- “Interrogating the role of sex hormones in the human brain” Women’s Health Brain Cluster, “Menopause Fireside Chat” Lecture Series, **University of British Columbia**, (2021, April) Host: Liisa Galea, Ph.D.
- “Interrogating the role of sex hormones in the human brain” **Feindel Brain and Mind Lecture Series Montreal Neurological Institute, Montreal, Canada** (2021, February) Host: Nathan Spreng, Ph.D.
- “Interrogating the role of sex hormones in the human brain” **UT Austin** (2021, February) Host: Jessica Church-Lang, Ph.D.
- “Interrogating the role of sex hormones in the human brain” Institute of Neuroscience **Texas A&M** (2020, September) Host: Jessica Bernard, Ph.D.
- “Sex hormones influence the functional architecture of the human brain” Women’s Brain Health Symposium. **University of British Columbia, Vancouver, Canada.** (2020, May) Host: Liisa Galea
*postponed to 2021 due to COVID-19

- “Interrogating the role of sex hormones in the human brain” Department of Psychology, **University of California, Los Angeles** (2020, January) Host: Patricia Cheng, Ph.D.
- “The role of sex hormones in the aging brain” University of California and Nanyang Technological University of Singapore Joint Workshop on Healthy Aging. (2019, December) **University of California, Los Angeles** Invited by UC Provost Michael T. Brown
- “Sex steroids and the aging brain” Douglas Brain Imaging Center Lecture Series, Department of Psychiatry, McGill University, **Montreal, Canada** (2019, September) Host: Maria Natasha Rajah, Ph.D.
- “Gender diversity drives scientific discovery” Groundbreaking Research and Innovative Technology (GRIT) Lecture Series, **University of California, Santa Barbara** (2019, June). Host: Lina Kim, Ph.D.
- “The neuroendocrine basis of cognitive aging” Clinical Psychophysiology Group, Department of Psychology, **Michigan State University** (2019, May). Host: Jason Moser
- “Sex and menopausal status shape early changes in episodic memory function” Talk presented in celebration of of the 25th Anniversary of the Office of Research on Women’s Health (ORWH) and BIRCIWH Annual meeting, Natcher Conference Center, **National Institutes of Health** (2016, May). Introduced by: Jill Goldstein, Ph.D., Host: Lisa Begg, Dr.P.H. and Janine Clayton, M.D.
- “Role of estrogen in regulating stress circuitry” Kavli Summer Institute in Cognitive Neuroscience, Topic: “The Stressed Brain” **University of California, Santa Barbara** (2016, June). Host: Barry Giesbrecht, Ph.D.
- “Interrogating the role of sex steroid hormones in memory circuitry” 15th Annual Integrative Center for 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 Tech Talk**, Mountainview, CA. (2010, May) Host: Peter Jin Hong
- “A women's health approach to frontal lobe function.” **Smith College**, Northampton, MA. (2009, September) Host: Mary Harrington, Ph.D.

TEACHING

- **University of California, Santa Barbara** Psychological & Brain Sciences 137: Behavioral Endocrinology, 2018-present
*Featured as “*Lecture Experience*” course for prospective UCSB students and families.
- **University of California, Santa Barbara** Psychological & Brain Sciences 160/163: Special Topics in Hormones and Cognition, 2017-present
*Featured as “*Lecture Experience*” course for prospective UCSB students and families.
- **University of California, Santa Barbara** Psychological & Brain Sciences 594: Graduate Seminar, Hormones and Cognition
- **University of California, Santa Barbara** Psychological & Brain Sciences 594: Graduate Seminar, Cognitive Neuroscience, 2022
- **University of California, Santa Barbara** Psychological & Brain Sciences 196: Junior Honors Seminar, 2020

- **University of California, Santa Barbara** Psychological & Brain Sciences 123: Cognitive Neuroscience, 2021
- **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)

MENTORING

Current Trainees

Caitlin Taylor, Ph.D. Postdoctoral fellow in the Jacobs Lab (2017-2022), Staff Scientist (2023-present)
 *Daryl & Marguerite Errett Discovery Award in Biomedical Research (2021-22)
 *2020 Univ. British Columbia Women's Brain Health Young Investigator Award
 *2020 OSSD Travel Award
 *Harvey L. Karp Discovery Award Fellow (2019-2020)
 *UCSB SAGE Junior Fellow (2018-2020)
 *2018 Florence T. Haseltine Prize by OSSD

Magdalena Garcia, Ph.D. Postdoctoral fellow in the Jacobs Lab (2024-Present)
 *Society for Reproductive Investigation Award

Hannah Grotzinger, B.A. PhD student in the Jacobs Lab (2020-present)
 *2023 ResearchHub Grant
 *2022 Richard E. Mayer Award for Outstanding Research Contribution in Psychology

Elle Murata, B.A. PhD student in the Jacobs Lab (2020-present)
 *2024 UCSB Research Accelerator Award
 *2024 AthenaDao Research Grant
 *2023 UCSB Graduate Opportunity Fellow
 *2023 TEDx Speaker
 *2022 Al and Marjorie Nasser Graduate Student Memorial Scholar

Allesandra Iadipaolo, B.A. PhD student in the Jacobs Lab (2023-present)
 *UCSB Chancellor's Fellowship (2023-2027)

Kaya Jordan, B.A. Research Technician in the Jacobs Lab (2024-present)

Undergraduate Honors Students: Ella Carlsson^{**}, Aneri Bhatt^{*}, Mia Jeffrey⁺, Brianna Li⁺, Morgan Fitzgerald^{**λψ}, Maggie Hayes^{*}, Courtney Kenyon^{**λ}, Aidan Galati^{**}, Elisabeth Rinder
 *Distinction in the Major
 +Exceptional Academic Performance Award
 λMorgan Award for Research Promise in Psychological & Brain Sciences
 ψUniversity Award of Distinction (awarded to 25 of >6,000 graduating seniors)

Dissertation Committees: Alexander Boone (UCSB), Viktoriya Babenko (UCSB), Dipanjana Das (UCSB), Elvisha Dhamala (Weill Cornell School of Medical Sciences), Courtney Louis (Michigan State University), Evan Layher (UCSB), Chelsea Lonergan (UCSB Communication), Mari Purpura (UCSB), Magdalena Martinez Garcia (Spain)

Rotation Students: Adele Meyers, Electrical & Computer Engineering (UCSB)

Previous PhD Trainees

<u>Laura Pritschet, B.A.</u>	PhD student in the Jacobs Lab (2017- 2024) Currently: Postdoctoral Fellow, UPenn with PI Ted Satterthwaite *2023 <i>Fiona and Michael Goodchild Graduate Mentoring Award</i> *2023 <i>Michael D. Young Engaged Scholar Award (awarded to 1 graduate or undergraduate student from the 2023 graduating class of >6,000)</i> *2022-2027 <i>NIH F99/K00 Award</i> *2021-2023 <i>NIH NRSA F31 Award (AG074634)</i> *2021 <i>Graduate Division Dissertation Fellowship</i> *2021 <i>UC President's Lindau Nobel Laureate Meetings Fellow</i> *2020 <i>National Institute of Health ORWH Science Policy Award</i> *2020 <i>University of British Columbia Women's Brain Health Trainee Award</i> * <i>Proceedings of the National Academy of Sciences Journal Club Panelist</i>
<u>Shuying Yu, B.A.</u>	PhD student in the Jacobs Lab (2018-2024) * <i>UCSB Eugene Cota-Robles University Diversity Fellow (2018-2023)</i> * <i>UCSB Crossroads Fellow (2018-2019)</i> * <i>2019 National Science Foundation GRFP Honorable Mention</i> * <i>2018 National Science Foundation GRFP Honorable Mention</i>

Previous Undergraduate Trainees (sample)

<u>Emily Yi</u>	Ph.D. student at <i>UC Irvine</i>
<u>Katie Levitt</u>	Clinical Research Coordinator at <i>Sansum Clinic</i>
<u>Averi Giudicessi</u>	Ph.D. student at <i>Boston University</i> and <i>NRSA Fellow</i>
<u>Morgan Fitzgerald</u>	Ph.D. student at <i>University of California, San Diego</i>
<u>Courtney Kenyon, B.A.</u>	M.D. student at <i>University of Utah College of Medicine.</i>
<u>Julia Woods, B.A.</u>	M.D. student at <i>University of Wisconsin School of Medicine.</i>
<u>Mustafa Shakir, B.A.</u>	M.D. student at <i>UC Davis School of Medicine.</i>
<u>Naomi Warren, B.A.</u>	Neuroscience laboratory technician at <i>Texas A&M.</i>
<u>Blair Weiss, M.A.</u>	PhD student at <i>Widener University.</i>
<u>Julia Longenecker, M.A.</u>	PhD student at <i>University of Minnesota.</i>
<u>Elaine LaGuerta, B.A.</u>	Completed her graduate degree at <i>UC Berkeley.</i>
<u>Katie Cheng, B.A.</u>	Research technician at <i>Stanford University.</i>
<u>Jared Torre, M.A.</u>	PhD at <i>UCLA</i> with an <i>NSF Graduate Research Fellowship.</i>
<u>Erin Thompson, M.A.</u>	Completed her graduate degree at <i>University College London.</i>

SERVICE

University & Departmental Service (representative)

- Director, Ann S. Bowers Women's Brain Health Initiative (2024-present)
- Advisory Committee, UCSB Neuroscience Research Institute (2017-present)
- Interim Director, UCSB Brain Imaging Center (Fall 2021)
- Co-Director, SAGE Center for the Study of the Mind Junior Fellows Program (2018-2021) (Director, Michael Gazzaniga)
- Member, UCSB Center for Longevity and Aging (2017-present)
- Member, UCSB Center for Feminist Futures (2022-present)
- Advisory Committee, UCSB Benioff Ocean Initiative

- Faculty Representative, Coalition for National Science Funding’s science advocacy work in D.C.; meetings with offices of Sens. Kamala Harris, Diane Feinstein, Reps. Nancy Pelosi, Julia Brownley and Salud Carbajal to advocate for sustained federal funding for women’s health research
- PI and Co-Lead Faculty, UCSB Graduate Division Crossroads Fellowship: “Sex Hormones, Aging, & Spatial Navigation” (2018-2020)
- UCSB Career Development Awards Committee (2022)
- Member, Shared Lab Policies Committee (2018-present)
- Member, Faculty Legislature (2021-present)
- Selection Committee, UCSB Harvey L. Karp Discovery Award (2020)
- Selection Committee, UCSB Errett Fisher Fellowship (2019)

Reviewer

Annals of the New York Academy of Sciences • American Journal of Neuroradiology • Archives of Neurology • Behavioral Brain Research • Biological Psychiatry • Cerebral Cortex • Communications Biology • Frontiers in Neuroscience • The French National Research Agency (L’Agence Nationale de la Recherche) • Hormones and Behavior • JAMA Neurology • Journal of Alzheimer’s Disease • Journal of Cognitive Neuroscience • Journal of Neuroscience • Molecular Psychiatry • Neurobiology of Aging • NeuroImage • Neuron • Neuropsychologia • Neuropsychopharmacology • Nature Aging • Nature Human Behavior • Nature Neuroscience • Neuroscience • Neuroscience and Biobehavioral Reviews • Physiology and Behavior • Proceedings of the National Academy of Sciences • Psychiatry Research • Psychoneuroendocrinology • Psychopharmacology • Trends in Cognitive Science • NIH Special Emphasis Panel/Scientific Review Group for U54 “Specialized Centers of Research Excellence on Sex Differences” • NIH Special Emphasis Panel/Scientific Review Group “Mood and Psychosis Symptoms During the Menopausal Transition” • NIH Special Emphasis Panel/Scientific Review Group “Building Interdisciplinary Careers in Women’s Health K12 Award”

Editorial

Frontiers in Neuroendocrinology, Elsevier Press, Guest Editor Special Issue on Women’s Brain Health (2020)
 Proceedings of the National Academy of Sciences, Guest Editor (2018-present)
 Science Advances, Guest Editor Special Issue on Women’s Health for International Women’s Day (2024)

Membership

2005 – present	Society for Neuroscience
2005 – present	Cognitive Neuroscience Society
2009 – present	Organization for Human Brain Mapping
2012 – present	Organization for the Study of Sex Differences

Public Service *(sample)*

- Partner with **Girls, Inc. of Greater Santa Barbara** to host after-school K-12 lab demos; community lectures on gender diversity in science in collaboration with the UCSB Dept. of Education; faculty science mentor for the Curiosity Project Youth Summit
- Partner with K-12 groups (Goleta Union School District, Knox School, Laguna Blanca, National Charity League) to advance girls’ representation in STEM, work featured in the book “**STEMinists: The Lifework of 12 Women Scientists and Engineers**”
- Guest Lecturer at the **National Youth Science Camp**, West Virginia. Host: Andrew Blackwood, Executive Director of the National Youth Science Foundation
- Science outreach for **Voice-in-Sports**, a company dedicated to accelerating the voice of female athletes. Efforts include engaging female athletes on exercise/brain science. Host: Stefanie Strack, CEO
- Host science demos at **MOXI: The Wolf Museum of Exploration and Innovation** for hands-on educational workshops on the brain for adults and children

- Advisor for the national competition **National History Day**. Advised on website dedicated to the 1993 NIH Revitalization Act, drawing attention to women's underrepresentation in STEM.
- Hosted screening of **Picture A Scientist**, a documentary that amplifies the voices of women and people of color in academia. In partnership with the UCSB Carsey-Wolf Center and the Pollock Theatre, the film was screened for the Santa Barbara community with a moderated Q&A with the filmmakers. ([link](#))
- Member of the **Goleta Union School District** Social Justice and Equity Task Force chaired by Superintendent Donna Lewis. Term 2020-2023.
- Scientific Advisory Board, **51 Foundation** (2022-present) ([link](#))
- UC-HCBU Summer Program. Partnership with Morehouse College for an 8-week summer undergraduate research internship (2023)
- Member of the **Santa Barbara Women's Health Coalition**
- **White House** Science Advisory role (Office of the First Lady)
- The **Ann S. Bowers Women's Brain Health Initiative Seminar Series** launched in January and has hosted eight events featuring leaders in women's brain health, amassing an audience of 450 registrants from >35 countries.
- WBHI joined forces with **Women in Data Science** (WiDS) to launch an international datathon that spans 5,000 competitors from 100 countries. The 2025 Challenge Theme is Unraveling the Mysteries of the Female Brain. WiDS Datathons provide training opportunities for students (75% women) to discover or hone their data science skills.
- The WBHI partnered with the American Association for the Advancement of Science (AAAS)'s flagship open-access journal **Science Advances** to guest edit a special issue on Women's Health to be released on International Women's Day 2025.
- The WBHI partnered with the non-profit **51Foundation** to launch a women's health tract for **MIT's DHIVE program** for aspiring entrepreneurs. The DHIVE program provides an opportunity for students to learn about challenging healthcare problems that need solutions. The goal of the Women's Health track is to provide an on ramp for some of the best young minds in science, health, and technology to generate innovative solutions to pressing questions in women's health.
- Joined the **Women's Brain Health Steering Committee** and Education and Policy subcommittee. This is a joint endeavor with Women's Alzheimer's Movement, Genentech, Cleveland Clinic, AARP, and the Society for Women's Health Research to address gender- and sex-based disparities, improve access to care, and reduce caregiver and family burden as it relates to women's brain health.
- Joined the **Women's Health Access Matters Consortium**, "a preeminent group of scientists, physicians, and luminaries committed to advancing women's health research" (WHAM Founder, Carolee Lee)
- Advising **Cottage Hospital** on developing a women's health service line and highlighting women's health research in an upcoming RFP and at the 2025 Research Symposium.
- Outreach and fundraising event at the **Lower East Side Girls Club** to raise awareness about women's brain health (November 2024)

Media (*sample*)

Scientific American Mind, "Is estrogen the new ritalin?" by Erik Vance. (2010, May) ([link](#))

Berkeley Science Review, "Hot flashes with a chance of brainstorm" 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](#))

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

Robert Wood Johnson Foundation, “HRT may protect against Alzheimer’s in high-risk women” by Sheree Crute (2013, February) ([link](#))

Stanford School of Medicine, “Accelerated biological aging evident in women with Alzheimer’s risk factor” by Bruce Goldman (2013, February) ([link](#))

Science Daily, “Accelerated biological aging, seen in women with Alzheimer’s risk factor, blocked by hormone therapy” Associated Press (2013, February) ([link](#))

Scientific American Mind, “Estrogen’s role in impulsive behavior” by Diana Kwon. (2014, May) ([link](#))

UCSF School of Medicine, “Cells’ protective DNA linked to size of brain region vital for memory” by Jeff Norris. (2014, July) ([link](#))

National Public Radio and Public Radio International, “Gender bias in health research leads to unintended consequences” In conversation with John Hockenberry on *The Takeaway*. (2014, September) ([link](#))

Harvard Gazette, “Changes in memory tied to menopausal status” by Haley Bridger (2016, September) ([link](#))

CBS News, “Menopause “brain fog” is real, study finds” by Amy Norton (2016, October) ([link](#))

The Dana Foundation, “Hormonal contraception linked to increased risk of depression” by Kayt Sukel (2016, November) ([link](#))

The Dana Foundation, “Sorting out the links between menopause and memory decline” by Kayt Sukel (2016, November) ([link](#))

The Dana Foundation, “Incorporating sex influences into today’s brain research” by Kayt Sukel (2017, January) ([link](#))

National Public Radio and KCLU, “Girls on south coast learn about careers in science and engineering in unusual way” by Debra Greene (2017, June) ([link](#))

The New York Times, “The Gender War, 2018 Edition” by Thomas Edsall (2018, October) ([link](#))

TEDx Talk, “Gender diversity drives scientific discovery” (2019, January) ([link](#))

The New York Times, “White Riot” by Thomas Edsall (2021, January) ([link](#))

This is Your Brain, podcast with Dr. Phil Steig, Chief of Neurosurgery at Weill-Cornell School of Medicine. Interview on women’s brain health (2021, January)

University of California, “How sexism hinders brain research” by Tom Jacobs (2021, October) ([link](#))

Netflix, Filmed Netflix limited series *Principles of Pleasure* featuring lab’s research on women’s brain health (Released March 2022) ([link](#)) Advised on educational resources to accompany the series: principlesofpleasure.org

BBC, “28-ish Days Later” series featuring lab’s research on women’s brain health (Released March 2022) ([link](#))
*Named one of the best podcasts of the year by the *Guardian*

Science News, “How do sex hormones sculpt the brain? This scientist wants to find out” (September 2022) ([link](#))

UC Santa Barbara Magazine, “Women First” (November 2022) ([link](#))

Washington Post, “Women’s brain change across the menstrual cycle” (December 2023) ([link](#))

National Geographic, “The menstrual cycle can reshape your brain” (February 2024) ([link](#))

Scientific American, “How pregnancy shapes the brain” (March 2024) ([link](#))

The Wall Street Journal, “Pregnancy shrinks your brain. But it strengthens it too” (May 2024) ([link](#))

MasterClass, "Menopause" Filmed August 2024 (release date: November 2024)