

# Grace Hansen

MD/PhD Candidate | University of Chicago

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<https://grace-hansen.github.io/>

## Research Experience

Graduate Student, Department of Genetics, Genomics, and Systems Biology  
Nobrega Lab, University of Chicago  
September 2017-present

IRTA Post-baccalaureate fellow, National Institute of Mental Health  
Clinical and Translational Neuroscience Branch  
July 2013-May 2016

Research Manager, University of Utah  
Visual Perception and Spatial Cognition Lab  
August 2012-May 2013

Experiment Director, College of William and Mary  
Cognitive Psychophysiology Lab  
June 2011- May 2012

## Education

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University of Chicago Medical Scientist Training Program (MD/PhD program)  
PhD specialization: Genetics  
FAES Graduate School at NIH  
College of William and Mary, 2008-2012  
Bachelor of Science, Cognitive Neuroscience  
Bachelor of Arts, English

## Honors and Awards

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American Heart Association Predoctoral Award, 2017-present  
Top Poster Award, Society of Biological Psychiatry Annual Meeting 2016  
Top Abstract Award, NIMH Training Day 2015  
Magna Cum Laude, College of William and Mary  
Honors in Psychology , College of William and Mary  
Honors Thesis Award: High Honors, College of William and Mary  
(possible awards: No Honors, Honors, High Honors)  
Dean's List, College of William and Mary

## Presentations and Publications

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## Publications

- Helling, B.S., Sobreira, D.R., Hansen, G.T., ... & Ober, C.A. (2020). Transcriptional and Chromatin Responses of Bronchial Epithelial Cells to RV are Altered in Asthma. *Communications Biology*.
- Montefiori, L. E., Sobreira, D. R., Sakabe, N. J., Aneas, I., Joslin, A. C., Hansen, G. T., ... & Nobrega, M. A. (2018). A promoter interaction map for cardiovascular disease genetics. *eLife*, 7, e35788.
- Padilla, L., Hansen, G., Ruginski, I., Kramer, H., Thompson, W., and Creem-Regehr, S. (2014). The influence of different graphical displays on non-expert decision making under uncertainty. *The Journal of Experimental Psychology: Applied*.
- Creem-Regehr, S., Payne, B., Rand, K. and Hansen, G. (2013). Scaling space with the mirror illusion: The influence of body plasticity on perceived affordances. *Psychonomic Bulletin and Review*.

## Presentations

- Hansen, G., Kippenhan, J.S., Giedd, J., Gregory, M., Kolochana, B., Rapoport, J., and Berman, K.F. Williams Syndrome gene *LIMK1* impacts regional human gray matter developmental trajectories in healthy children. Presentation given at the 2015 National Institute of Mental Health Training Day, Bethesda, MD.
- Hansen, G., Nguyen, T., Kippenhan, J. S., Kolachana, B., Mattay, A., Weinberger, D. and Berman, K.F. Different oxytocin receptor polymorphisms are associated with independent effects on gray and white matter volume in the human brain. Poster presented at the 2014 Society for Neuroscience Annual Meeting, Washington, DC.
- Hansen, G., Nguyen, T.V., Reuter, J., Lipska, B., Kleinman, J., Schmidt, P., and Berman, K. Developmentally-specific interactions between the expression of genes coding for prosocial peptides and dopamine D2 receptor gene expression in the postmortem human brain. Poster presented at the 2014 Society for Biological Psychiatry Annual Meeting, New York, NY.
- Hansen, G., Kippenhan, J.S., Giedd, J., Gregory, M., Kolochana, B., Rapoport, J., and Berman, K.F. Williams Syndrome gene *LIMK1* impacts regional human gray matter developmental trajectories in healthy children. Poster presented at the 2015 Society for Biological Psychiatry Annual Meeting, Toronto, CA.
- Hansen, G.T. Sobriera, D.R., Joslin, A.C., Shah, A., Zeng, T.K., Li, Y. & Nobrega, M.A. Systematic Identification of Genes Underlying Obesity Risk in Adipocytes. Poster presented at the 2018 American Society for Human Genetics Annual Meeting, San Diego, CA.

## Clinical Experience

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Sexual Assault Crisis Counselor, *Resilience*

May 2019-Present

Provide emergency legal and medical counseling for individuals presenting to emergency rooms in the Chicago area as the result of a sexual assault.

Volunteer, Bridgeport Free Clinic

September 2016-Present

Provide free primary care services to individuals presenting to the clinic for medical care, including taking histories of present illness, providing physicals, and performing point-of-care medical testing.

Volunteer, NLVS Free Clinic

September 2016-Present

Provide free primary care services to individuals presenting to the clinic for medical care, including taking histories of present illness, providing physicals, and performing point-of-care medical testing.

NIMH Psychiatric Inpatient Unit

October 2013-May 2016

Participation in and supervision of group therapy, individual therapy, and recreational therapy programs. Observation of physician care, medication management, and diagnosis.

NIH Intensive Care Unit

November 2013-May 2016

Observation of NIH internal medicine physicians during care of inpatients on protocol at the NIH in critical condition.

## Teaching Experience

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Teaching Assistant, September 2018-December 2018

Course Title: Human Genetics

Mentored junior graduate students as they developed scientific writing skills, evaluated the scientific design of proposed projects, suggested improvements to the design of proposed research.

Teaching Assistant, September 2018-September 2019

Course Title: Quantitative Analysis Bootcamp

Taught basic programming in R and Unix to 90 incoming biological science graduate students. Introduced students to data visualization, version control, and other topics.

Software Carpentry Assistant, January 2019

Worked with students in the biological sciences as they learned basic programming in R and Unix.

## **Leadership, Mentorship, and Diversity in STEM Advocacy**

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Mentor, American Physician Scientist Association, 2020-present  
Member, BSD Diversity Committee, 2020-present  
Member, Graduate Recruitment Initiative Team (GRIT), 2020-present  
Dean's Council, University of Chicago Biological Sciences Division, 2017-2019  
Student Health Advisory Board, University of Chicago, 2017-2018  
Mentor, Health Professions Recruitment Program, 2017  
Senior Fellow, Section on Integrative Neuroimaging, 2014-2015

## **References**

Marcelo Nobrega  
Professor of Human Genetics, University of Chicago  
[mnobrega@bsd.uchicago.edu](mailto:mnobrega@bsd.uchicago.edu)

Marcus Clark  
Professor of Medicine and Pathology, University of Chicago  
Chair, University of Chicago Medical Scientist Training Program  
[mclark@medicine.bsd.uchicago.edu](mailto:mclark@medicine.bsd.uchicago.edu)

Karen Berman, MD  
Chief, Section on Integrative Neuroimaging  
National Institute of Mental Health  
[karen.berman@nih.gov](mailto:karen.berman@nih.gov)

Shane Kippenhan, Ph.D  
Senior Investigator, Section on Integrative Neuroimaging  
National Institute of Mental Health  
[kippenhs@mail.nih.gov](mailto:kippenhs@mail.nih.gov)