

Julie D. White

IRTA POSTDOCTORAL RESEARCH FELLOW

National Institute of Environmental Health Sciences

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Trying to make things work

Research Interests

- Genetic and environmental contributors to human phenotypic variation and health
- Epigenetic modifications in response to environmental exposures
- Gene x environment interactions
- Bioinformatics, statistical genetics, and data visualization

Education

B.S. in Genetics CLEMSON UNIVERSITY	2010-2014
M.A. in Anthropology PENN STATE UNIVERSITY	2014-2016
Ph.D. in Anthropology PENN STATE UNIVERSITY	2016-2019

History

IRTA Postdoctoral Fellow EPIDEMIOLOGY BRANCH; NATIONAL INSTITUTE OF ENVIRONMENTAL HEALTH SCIENCES	2020-current
Instructor PENN STATE UNIVERSITY	2019
Graduate Research Assistant PENN STATE UNIVERSITY	2014-2019
Teaching Assistant PENN STATE UNIVERSITY	2014-2018
NSF REU Biochemistry Intern TEXAS A&M UNIVERSITY	2013
Summer Research Intern GREENWOOD GENETICS CENTER	2012
Undergraduate Researcher in Genetics and Biochemistry CLEMSON UNIVERSITY	2010-2014

Computational Languages

R	Advanced
Bash	Intermediate
Python	Intermediate

Bioconductor

Novice

MATLAB

Novice

LaTeX

Intermediate

plink

Advanced

vcf- and bcftools

Advanced

shapeit

Advanced

Impute

Advanced

Publications

IN-PROGRESS

- Hoang, T. T., Qi, C., Paul, K. C., Lee, Mi Kyeong, **White, Julie D.**, Richards, M., Auerbach, S. S., Long, S., Shrestha, S., Wang, T., Beane-Freeman, L. E., Parks, C., Consortium, B., Xu, C.-j., Ritz, B., Koppelman, G. H., & London, S. J. (in review-). *Epigenome-wide dna methylation and pesticide use in the agricultural lung health study*.
- Hoskens, H., Liu, D., Naqvi, S., Lee, M. K., Indencleef, K., **White, Julie D.**, Li, J., Hens, G., Wysocka, J., Walsh, S., Richmond, S., Shriver, M. D., Shaffer, J. R., Peeters, H., Weinberg, S. M., & Claes, P. (in review-). *3D facial phenotyping by biometric sibling matching used in contemporary genomic methodologies*.

PEER-REVIEWED

- Indencleef, K., Hoskens, H., Lee, M. K., **White, Julie D.**, Liu, C., Eller, R. J., Naqvi, S., Wehby, G. L., Moreno Uribe, L. M., Hecht, J. T., Long, R. E., Christensen, K., Deleyiannis, F. W., Walsh, S., Shriver, M. D., Richmond, S., Wysocka, J., Peeters, H., Shaffer, J. R., ... Claes, P. (2021). The intersection of the genetic architectures of orofacial clefts and normal facial variation [Journal Article]. *Frontiers in Genetics*, 12(170). <https://doi.org/10.3389/fgene.2021.626403>
- White, Julie D.**, Indencleef, K., Naqvi, S., Eller, R. J., Hoskens, H., Roosenboom, J., Lee, M. K., Li, J., Mohammed, J., Richmond, S., Quillen, E. E., Norton, H. L., Feingold, E., Swigut, T., Marazita, M. L., Peeters, H., Hens, G., Shaffer, J. R., Wysocka, J., ... Claes, P. (2021). Insights into the genetic architecture of the human face [Journal Article]. *Nature Genetics*, 53(1), 45–53. <https://doi.org/10.1038/s41588-020-00741-7>
- Ekrami, O., Claes, P., **White, Julie D.**, Weinberg, S. M., Marazita, M. L., Walsh, S., Shriver, M. D., & Van Dongen, S. (2020). A multivariate approach to determine the dimensionality of human facial asymmetry [Journal Article]. *Symmetry*, 12(3), 348. <https://doi.org/10.3390/sym12030348>
- Li, J., Zarzar, T. G., **White, Julie D.**, Indencleef, K., Hoskens, H., Matthews, H., Nauwelaers, N., Zaidi, A., Eller, R. J., Herrick, N., Günther, T., Svensson, E. M., Jakobsson, M., Walsh, S., Van Steen, K., Shriver, M. D., & Claes, P. (2020). Robust genome-wide ancestry inference for heterogeneous datasets: Illustrated using the 1,000 genome project with 3D facial images [Journal Article]. *Scientific Reports*, 10(1), 11850. <https://doi.org/10.1038/s41598-020-68259-w>
- White, Julie D.**, Ortega-Castrillon, A., Virgo, C., Indencleef, K., Hoskens, H., Shriver, M. D., & Claes, P. (2020). Sources of variation in the 3dMDface and vectra h1 3D facial imaging systems [Journal Article]. *Scientific Reports*, 10(1), 4443. <https://doi.org/10.1038/s41598-020-61333-3>
- Sero, D., Zaidi, A., Li, J., **White, Julie D.**, Zarzar, T. B. G., Marazita, M. L., Weinberg, S. M., Suetens, P., Vandermeulen, D., Wagner, J. K., Shriver, M. D., & Claes, P. (2019). Facial recognition from dna using face-to-dna classifiers [Journal Article]. *Nature Communications*, 10(1), 2557. <https://doi.org/10.1038/s41467-019-10617-y>
- White, Julie D.**, Ortega-Castrillón, A., Matthews, H., Zaidi, A. A., Ekrami, O., Snyders, J., Fan, Y., Penington, T., Van Dongen, S., Shriver, M. D., & Claes, P. (2019). MeshMonk: Open-source large-scale intensive 3D phenotyping

[Journal Article]. *Scientific Reports*, 9(1), 6085. <https://doi.org/10.1038/s41598-019-42533-y>

Zaidi, A. A., **White, Julie D.**, Mattern, B. C., Liebowitz, C. R., Puts, D. A., Claes, P., & Shriver, M. D. (2019). Facial masculinity does not appear to be a condition-dependent male ornament and does not reflect mhc heterozygosity in humans [Journal Article]. *Proceedings of the National Academy of Sciences*, 116(5), 1633–1638. <https://doi.org/10.1073/pnas.1808659116>

Claes, P., Roosenboom, J., **White, Julie D.**, Swigut, T., Sero, D., Li, J., Lee, M. K., Zaidi, A., Mattern, B. C., Liebowitz, C., Pearson, L., González, T., Leslie, E. J., Carlson, J. C., Orlova, E., Suetens, P., Vandermeulen, D., Feingold, E., Marazita, M. L., ... Weinberg, S. M. (2018). Genome-wide mapping of global-to-local genetic effects on human facial shape [Journal Article]. *Nature Genetics*, 50(3), 414–423. <https://doi.org/10.1038/s41588-018-0057-4>

Ekrami, O., Claes, P., **White, Julie D.**, Zaidi, A. A., Shriver, M. D., & Van Dongen, S. (2018). Measuring asymmetry from high-density 3D surface scans: An application to human faces [Journal Article]. *PloS One*, 13(12), e0207895–e0207895. <https://doi.org/10.1371/journal.pone.0207895>

Indencleef, K., Roosenboom, J., Hoskens, H., **White, Julie D.**, Shriver, M. D., Richmond, S., Peeters, H., Feingold, E., Marazita, M. L., Shaffer, J. R., Weinberg, S. M., Hens, G., & Claes, P. (2018). Six nscl/p loci show associations with normal-range craniofacial variation [Journal Article]. *Frontiers in Genetics*, 9(502). <https://doi.org/10.3389/fgene.2018.00502>

Roosenboom, J., Indencleef, K., Lee, M. K., Hoskens, H., **White, Julie D.**, Liu, D., Hecht, J. T., Wehby, G. L., Moreno, L. M., Hodges-Simeon, C., Feingold, E., Marazita, M. L., Richmond, S., Shriver, M. D., Claes, P., Shaffer, J. R., & Weinberg, S. M. (2018). SNPs associated with testosterone levels influence human facial morphology [Journal Article]. *Frontiers in Genetics*, 9(497). <https://doi.org/10.3389/fgene.2018.00497>

Kelso, A. A., Goodson, S. D., Watts, L. E., Ledford, L. L., Waldvogel, S. M., Diehl, J. N., Shah, S. B., Say, A. F., **White, Julie D.**, & Sehorn, M. G. (2017). The β -isoform of bccip promotes adp release from the rad51 presynaptic filament and enhances homologous dna pairing [Journal Article]. *Nucleic Acids Res*, 45(2), 711–725. <https://doi.org/10.1093/nar/gkw877>

NON PEER-REVIEWED

White, Julie D., & Puts, D. A. (2019). Genes influence facial attractiveness through intricate biological relationships [Journal Article]. *PLOS Genetics*, 15(4), e1008030. <https://doi.org/10.1371/journal.pgen.1008030>

Grants and Awards

	2019
NATIONAL SCIENCE FOUNDATION DDRIG (\$31,535; AWARDED BUT DECLINED)	
	2017-2018
PSU HILL FELLOWSHIP AWARD (\$1500 AND \$1200)	
	2017
UW SUMMER INSTITUTES IN STATISTICAL GENETICS TRAVEL AWARD (\$1800)	
	2016-2018
PSU RGSO CONFERENCE TRAVEL AWARD (\$400 EACH YEAR)	
	2015
PSU CENTER FOR HUMAN EVOLUTION AND DIVERSITY RESEARCH GRANT (\$7303)	

Invited Presentations

Conference Participation

Pedagogical Experience_____

STUDENT ADVISING

PRIMARY INSTRUCTOR

GRADUATE STUDENT INSTRUCTOR

Professional Development_____

University and Professional Service_____

AD HOC REVIEWER

- PLoS Genetics (1)
- Scientific Reports (1)

Professional Memberships_____