# 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	2010-2014
CLEMSON UNIVERSITY	
M.A. in Anthropology	2014-2016
Penn State University	
Ph.D. in Anthropology	2016-2019
Penn State University	

# History\_\_\_\_

IRTA Postdoctoral Fellow	2020-current
EPIDEMIOLOGY BRANCH; NATIONAL INSTITUTE OF ENVIRONMENTAL HEALTH SCIENCES	
Instructor	2019
Penn State University	
Graduate Research Assistant	2014-2019
Penn State University	
Teaching Assistant	2014-2018
Penn State University	
NSF REU Biochemistry Intern	2013
Texas A&M University	
Summer Research Intern	2012
Greenwood Genetics Center	
Undergraduate Researcher in Genetics and Biochemistry	2010-2014
CLEMSON UNIVERSITY	

# Computational Languages \_\_\_\_\_

R

Advanced

Bash

ntermediate

**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*.

#### PEER-REVIEWED

- Hoskens, H., Liu, D., Naqvi, S., Lee, M. K., Eller, R. J., Indencleef, K., **White, Julie D.**, Li, J., Larmuseau, M. H. D., Hens, G., Wysocka, J., Walsh, S., Richmond, S., Shriver, M. D., Shaffer, J. R., Peeters, H., Weinberg, S. M., & Claes, P. (2021). 3D facial phenotyping by biometric sibling matching used in contemporary genomic methodologies [Journal Article]. *PLOS Genetics*, 17(5), 1–28. https://doi.org/10.1371/journal.pgen.1009528
- 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**

NATIONAL SCIENCE FOUNDATION DDRIG (\$31,535; AWARDED BUT DECLINED)

PSU HILL FELLOWSHIP AWARD (\$1500 AND \$1200)

2017-2019

UW SUMMER INSTITUTES IN STATISTICAL GENETICS TRAVEL AWARD (\$1800)

PSU RGSO Conference Travel Award (\$400 Each YEAR)

PSU CENTER FOR HUMAN EVOLUTION AND DIVERSITY RESEARCH GRANT (\$7303)

### **Invited Presentations**

# Center for Craniofacial and Dental Genetics; Advances in Human Facial Genetics Meeting

203 GWAS SIGNALS REVEAL COMBINATORIAL EFFECTS ON THE GENETIC ARCHITECTURE OF FACIAL SHAPE

**KU Leuven; Medical Imaging Center** 

DETECTING ASYMMETRY IN 3D FACIAL SCANS

University of Pretoria; Genetics department

EXPLORING GENOTYPE TO PHENOTYPE CONNECTIONS

Pittsburgh, PA, USA

2019

Leuven, Belgium

2018

Pretoria. Soi

na, south An

2010

# **Conference Participation**

Pedagogical Experience
Student Advising
Primary Instructor
Graduate Student Instructor
Professional Development
University and Professional Service
Ad Hoc Reviewer
<ul><li>PLoS Genetics (1)</li><li>Scientific Reports (1)</li></ul>