Bridget F.B. Algee-Hewitt
Senior Research Scientist, Ctr for Comparative Studies in Race and Ethnicity (CCSRE)

Bio

Bridget F.B. Algee-Hewitt is a biological anthropologist who studies skeletal and genetic trait variation in modern humans. Her research combines data analytic and hands-on laboratory approaches to the estimation of the personal identity parameters – like sex, ancestry, stature, and age – that are essential components of the biological profile used in forensic identification of unknown human remains and for the paleodemographic reconstruction of past population histories in bioarchaeology. Concerns for social justice, human rights, and issues of group disparities underlie much of her work. As a practicing forensic anthropologist and geneticist, she provides forensic casework consultation to the medico-legal community.

See her

CCSRE page: https://ccsre.stanford.edu/people/bridget-fb-algee-hewitt
ORCID page: https://orcid.org/0000-0002-3525-2131
and some coverage of her work: https://www.forensicmag.com/search/site/algee

CURRENT ROLE AT STANFORD

Senior Research Scientist

HONORS AND AWARDS

• New Methods In Skeletal Age-At-Death Estimation For Diverse Populations, Wenner-Gren Foundation (2017-2018)

LINKS

• ORCID: <a href="https://orcid.org/0000-0002-3525-2131" target="_blank" rel="noopener noreferrer" style="vertical-align:top;"><img src="https://orcid.org/sites/default/files/images/orcid_16x16.png" style="width:1em;margin-right:.5em;" alt="ORCID iD icon">orcid.org/0000-0002-3525-2131</a>

Publications

PUBLICATIONS

• Age Indicators Reveal Population Information: A New Computational Framework for Estimating Ancestry from Pubic Symphyseal Shape
  Algee-Hewitt, B. B., Kim, J.
• Testing the applicability of shape-based computational age-at-death estimation methods using pubic symphyseal surface scans of Asian Origin
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• Statistical Detection of Relatives Typed with Disjoint Forensic and Biomedical Loci. *Cell*
  Kim, J., Edge, M. D., Algee-Hewitt, B. F., Li, J. Z., Rosenberg, N. A.
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• Understanding (Mis)classification Trends of Latin Americans in Fordisc 3.1: Incorporating Cranial Morphology, Microgeographic Origin, and Admixture Proportions for Interpretation. *Journal of forensic sciences*
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• Matching CODIS genotypes to SNP genotypes using linkage disequilibrium
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• Age-at-death estimation based on the female pubic symphysis using computational methods and 3D laser scans
  WILEY.2018: 266

• Understanding population variability in age-at-death estimation for modern populations in Mexico and Puerto Rico through the use of 3D laser scans of the pubic symphysis
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• Compatibility of Ancestry Composition Estimations of Forensic STR loci versus Ancestry Informative Markers
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• Elucidating ancestry variation in the Philippines via mixture analysis
  Algee-Hewitt, B., Go, M. C., Dudzik, B., Hughes, C. E.
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• Computing Ancestry and Race: narrative and semantic patterns in the forensic language of identity
  Algee-Hewitt, M. A., Algee-Hewitt, B.
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• Temporal, Geographic and Identification Trends in Craniometric Estimates of Ancestry for Persons of Latin American Origin *Forensic Anthropology*
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• Thinking Computationally about Forensics: Anthropological Perspectives on Advancements in Technologies, Data, and Algorithms *HUMAN BIOLOGY*
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  Algee-Hewitt, B. F., Kim, J., Hughes, C. E.
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• A Study on the Asymmetry of the Human Left and Right Pubic Symphyseal Surfaces Using High-Definition Data Capture and Computational Shape Methods. *Journal of forensic sciences*
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• Testing Reliability of the Computational Age-At-Death Estimation Methods between Five Observers Using Three-Dimensional Image Data of the Pubic Symphysis. *Journal of forensic sciences*
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• Inter-observer Reliability of the Transition Analysis Aging Method on the William M. Bass Forensic Skeletal Collection. American Journal of Physical Anthropology
   Kim, J., Fojas, C., Minsky-Rowland, J., ALGEE-HEWITT, B.
   2018; 165

• CLASSIFICATION TRENDS AMONG CONTEMPORARY FILIPINO CRANIA USING FORDISC 3.1
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• Linkage disequilibrium matches forensic genetic records to disjoint genomic marker sets. Proceedings of the National Academy of Sciences of the United States of America
   Edge, M. D., Algee-Hewitt, B. F., Pemberton, T. J., Li, J. Z., Rosenberg, N. A.
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  Wheat, A. D., Algee-Hewitt, B. B.
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- Finding the place of race in anthropological discourse: a digital textual analysis.
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- Crania, coordinates, and clusters: testing a finite mixture modeling approach for the detection of population structure in modern America using high-dimensional data.
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- Assessing damages: Testing the assumptions of a non-destructive protocol for DNA extraction from modern human teeth
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