

# ARJUN BIDDANDA

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## RESEARCH INTERESTS

Population Genomics, Statistical Genetics, Ancient DNA

## EDUCATION

2015 - Present PhD · Human Genetics · University of Chicago  
Advisor: John Novembre

2011 - 2015 BS · Computer Science (*Cum Laude*) · Cornell University  
Advisor: Alon Keinan

## PUBLICATIONS

\* - indicates equal contribution

Charleston W K Chiang, Joseph H Marcus, Carlo Sidore, **Arjun Biddanda**, Hussein Al-Asadi, Magdalena Zoledziewska, Maristella Pitzalis, Fabio Busonero, Andrea Maschio, Giorgio Pistis, Maristella Steri, Andrea Angius, Kirk E Lohmueller, Goncalo R Abecasis, David Schlessinger, Francesco Cucca, and John Novembre. Genomic history of the Sardinian population. *Nature Genetics*, 2018.

Peter de Barros Damgaard, Rui Martiniano, Jack Kamm, J Víctor Moreno-Mayar, ..., **Arjun Biddanda**, ..., Martin Sikora, Alan K Outram, Richard Durbin, and Eske Willerslev. The first horse herders and the impact of early Bronze Age steppe expansions into Asia. *Science*, 2018.

Yedael Y Waldman\*, **Arjun Biddanda**\*, Natalie R Davidson, Paul Billing-Ross, Maya Dubrovsky, Christopher L Campbell, Carole Oddoux, Eitan Friedman, Gil Atzmon, Eran Halperin, and Others. The genetics of Bene Israel from India reveals both substantial Jewish and Indian ancestry. *PLoS One*, 11(3):e0152056, 2016.

Yedael Y Waldman, **Arjun Biddanda**, Maya Dubrovsky, Christopher L Campbell, Carole Oddoux, Eitan Friedman, Gil Atzmon, Eran Halperin, Harry Ostrer, and Alon Keinan. The genetic history of Cochui Jews from India. *Human Genetics*, pages 1–17, 2016.

Feng Gao\*, Diana Chang\*, **Arjun Biddanda**\*, Li Ma, Yingjie Guo, Zilu Zhou, and Alon Keinan. XWAS: a software toolset for genetic data analysis and association studies of the X chromosome. *Journal of Heredity*, 106(5):666–671, 2015.

## PRESENTATIONS

**Arjun Biddanda**, Matthias Steinrücken, and John Novembre. *Linkage Disequilibrium in Ancient DNA: Theory and Applications*. American Society of Human Genetics (Poster), 2019.

**Arjun Biddanda**, Matthias Steinrücken, and John Novembre. *Linkage Disequilibrium in Ancient DNA: Theory and Applications*. Midwest Population Genetics (Talk), 2019.

**Arjun Biddanda** and John Novembre. *Inference and visualization of the geographic distribution for variant sets*. American Society of Human Genetics (Poster), 2018.

## TEACHING EXPERIENCE

Winter 2019 Guest Lecturer, *University of Chicago*  
Computing Skills for Biologists

Winter 2018 Teaching Assistant, *University of Chicago*

	HG 486: Fundamentals of Computational Biology
Summer 2017	Course Assistant, <i>University of Chicago</i> Marine Biological Laboratory - Quantitative Approaches to Biology Bootcamp
Spring 2017	Teaching Assistant, <i>University of Chicago</i> HG 469: Human Variation and Disease
2016 - 2018	Tutor, <i>University of Chicago</i> Introduction to Statistics for Geneticists
2016 - present	Instructor, <i>Software Carpentry</i>
2013 - 2015	Teaching Assistant, <i>Cornell University</i> CS 3110 : Functional Programming and Data Structures

## HONORS / AWARDS

2017	Honorable Mention <i>NSF Graduate Research Fellowship</i>
2015-2018	NIH Genetics and Regulation Training Grant <i>University of Chicago</i>
2013 - 2015	Dean's List <i>Cornell University College of Engineering</i>
2011 - 2015	Service Scholarship <i>United States Tennis Association</i>

## INDUSTRY EXPERIENCE

2013	Software Engineering Intern <i>Guidewire Software</i>
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## COMPUTATIONAL SKILLS

Python, Bash, C++ , R, Java, OCaml  
Git, L<sup>A</sup>T<sub>E</sub>X, Microsoft Office

## SOCIETY MEMBERSHIPS

American Society of Human Genetics (ASHG)