



## Noah Rosenberg

Stanford Professor of Population Genetics and Society  
Biology

### Bio

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#### ACADEMIC APPOINTMENTS

- Professor, Biology
- Member, Bio-X
- Member, Institute for Computational and Mathematical Engineering (ICME)

#### HONORS AND AWARDS

- Career Award in the Biomedical Sciences, Burroughs Wellcome Fund (2004)
- Sloan Fellow in Computational and Evolutionary Molecular Biology, Alfred P. Sloan Foundation (2006)
- Dean's Basic Science Research Award, University of Michigan Medical School (2010)
- Stanford Professorship in Population Genetics & Society, Stanford University School of Humanities & Sciences (2014)
- Elected Fellow, American Association for the Advancement of Science (2018)
- George C. Williams Prize, International Society for Evolution, Medicine, & Public Health (2020)
- James V. Burgess Methods Article-of-the-Year Award, Health Services Research (2021)

#### BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS

- Associate Editor, PLoS Computational Biology (2025 - present)
- Founding Editor-in-Chief, Population Biology Modeling & Theory (2025 - present)
- Associate Editor, Evolution, Medicine, and Public Health (2014 - present)
- Editor-in-Chief, Theoretical Population Biology (2013 - 2024)
- Associate Editor, Molecular Biology and Evolution (2011 - 2014)
- Associate Editor, Human Biology (2010 - 2024)
- Associate Editor, Genetics (2010 - 2018)
- Associate Editor, BMC Bioinformatics (2010 - 2014)
- Associate Editor, Theoretical Population Biology (2009 - 2012)
- Associate Editor, American Journal of Human Genetics (2008 - 2010)

#### PROFESSIONAL EDUCATION

- BA, Rice University , Mathematics (1997)
- MS, Stanford University , Mathematics (1999)
- PhD, Stanford University , Biology (2001)

- Postdoc, University of Southern California , Molecular/Computational Biology (2005)

## LINKS

- Rosenberg Lab website: <https://web.stanford.edu/group/rosenberglab>

## Research & Scholarship

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### CURRENT RESEARCH AND SCHOLARLY INTERESTS

Research in the lab addresses problems in evolutionary biology and genetics through mathematical modeling, computer simulations, development of statistical methods, and inference from population-genetic data. Our current work covers topics such as combinatorics of evolutionary trees, inference of human evolutionary history, the role of population genetics in the search for disease-susceptibility genes, the relationship of gene trees and species trees, and mathematical properties of statistics used for analyzing genetic variability.

## Teaching

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### COURSES

#### 2025-26

- Fibonacci's Rabbits and Darwin's Elephants: Integer Sequences for Evolutionary Biology: BIO 22N (Win)
- Peregrinations With Trees: BIO 20N (Aut)

#### 2024-25

- Mathematical Population Biology: BIO 187, BIO 287, CME 187 (Win)
- Seminar on Statistical Methods in Ecology and Evolution: BIO 192, BIO 387 (Win)

#### 2023-24

- Advanced Topics in Mathematical Evolutionary Biology: BIO 287A (Aut)
- Seminar in Computational, Evolutionary, and Human Genomics: BIO 388 (Aut)

#### 2022-23

- Seminar in Computational, Evolutionary, and Human Genomics: BIO 388 (Aut)

### STANFORD ADVISEES

#### Doctoral Dissertation Reader (AC)

Javier Blanco, Tami Gjorgjieva, Julie Zhu

#### Postdoctoral Faculty Sponsor

Kennedy Agwamba, Lily Tamir

#### Doctoral Dissertation Advisor (AC)

Daniel Bauman, Egor Lappo, Chloe Shiff

### GRADUATE AND FELLOWSHIP PROGRAM AFFILIATIONS

- Biology (School of Humanities and Sciences) (Phd Program)

## Publications

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### PUBLICATIONS

- **Labeled histories and maximally probable labeled topologies with multifurcation** *DISCRETE APPLIED MATHEMATICS*  
Dickey, E. H., Rosenberg, N. A.

2026; 391: 192-203

- **Clumpping 2.0: A Clustering Alignment Program for Population Structure Analyses.** *Human population genetics and genomics*  
Liu, X., Rosenberg, N. A., Ramachandran, S.  
2026; 6 (2)
- **Enumeration of rooted binary perfect phylogenies.** *Discrete applied mathematics (Amsterdam, Netherlands : 1988)*  
Shiff, C. E., Rosenberg, N. A.  
2026; 380: 538-561
- **Enumeration of rooted binary perfect phylogenies** *DISCRETE APPLIED MATHEMATICS*  
Shiff, C. E., Rosenberg, N. A.  
2026; 380: 538-561
- **An  $n$ -Cousin Mating Model and the  $n$ -Anacci Numbers** *FIBONACCI QUARTERLY*  
Mora, E., Rosenberg, N. A.  
2026
- **Reflections on the Human Genome Diversity Project: a conversation with Marcus W. Feldman, Henry T. Greely, and Mary-Claire King.** *Genetics*  
Ramachandran, S., Rosenberg, N. A.  
2026
- **Shared Ancestors and the Birthday Problem** *AMERICAN STATISTICIAN*  
Agranat-Tamir, L., Agwamba, K. D., Mooney, J. A., Rosenberg, N. A.  
2026
- **Integer Sequences for Diversity Statistics** *JOURNAL OF INTEGER SEQUENCES*  
Moon, B. K., Rosenberg, N. A.  
2026; 29 (1)
- **Tree Height and the Asymptotic Mean of the Colijn-Plazzotta Rank of Unlabeled Binary Rooted Trees.** *Bulletin of mathematical biology*  
Devroye, L., Doboli, M. R., Rosenberg, N. A., Wagner, S.  
2025; 87 (12): 172
- **Toward minimal SNP sets for record-matching with CODIS STR profiles.** *European journal of human genetics : EJHG*  
Gjorgjieva, T., Rosenberg, N. A.  
2025
- **Coalescent theory of the  $\psi$  directionality index.** *G3 (Bethesda, Md.)*  
Lappo, E., Rosenberg, N. A.  
2025
- **Coalescent theory of the  $\psi$  directionality index.** *bioRxiv : the preprint server for biology*  
Lappo, E., Rosenberg, N. A.  
2025
- **Using mathematical constraints to explain narrow ranges for allele-sharing dissimilarities.** *Theoretical population biology*  
Liu, X., Ahsan, Z., Rosenberg, N. A.  
2025
- **Quantifying compositional variability in microbial communities with FAVA.** *Proceedings of the National Academy of Sciences of the United States of America*  
Morrison, M. L., Xue, K. S., Rosenberg, N. A.  
2025; 122 (11): e2413211122
- **Labelled histories with multifurcation and simultaneity.** *Philosophical transactions of the Royal Society of London. Series B, Biological sciences*  
Dickey, E. H., Rosenberg, N. A.  
2025; 380 (1919): 20230307

- **"A mathematical theory of evolution": phylogenetic models dating back 100 years.** *Philosophical transactions of the Royal Society of London. Series B, Biological sciences*  
Rosenberg, N. A., Stadler, T., Steel, M.  
2025; 380 (1919): 20230297
- **Using mathematical constraints to explain narrow ranges for allele-sharing dissimilarities.** *bioRxiv : the preprint server for biology*  
Liu, X., Ahsan, Z., Rosenberg, N. A.  
2024
- **Unraveling the genomic diversity and admixture history of captive tigers in the United States.** *Proceedings of the National Academy of Sciences of the United States of America*  
Armstrong, E. E., Mooney, J. A., Solari, K. A., Kim, B. Y., Barsh, G. S., Grant, V. B., Greenbaum, G., Kaelin, C. B., Panchenko, K., Pickrell, J. K., Rosenberg, N., Ryder, O. A., Yokoyama, et al  
2024; 121 (39): e2402924121
- **Quantifying compositional variability in microbial communities with FAVA.** *bioRxiv : the preprint server for biology*  
Morrison, M. L., Xue, K. S., Rosenberg, N. A.  
2024
- **Enumeration of Rooted Binary Unlabeled Galled Trees.** *Bulletin of mathematical biology*  
Agranat-Tamir, L., Mathur, S., Rosenberg, N. A.  
2024; 86 (5): 45
- **Mathematical constraints on a family of biodiversity measures via connections with Rényi entropy.** *Bio Systems*  
Gress, T. D., Rosenberg, N. A.  
2024: 105153
- **Solving the Arizona search problem by imputation.** *iScience*  
Lappo, E., Rosenberg, N. A.  
2024; 27 (2): 108831
- **Bijections between the multifurcating unlabeled rooted trees and the positive integers** *ADVANCES IN APPLIED MATHEMATICS*  
Maranca, A., Rosenberg, N. A.  
2024; 153
- **A lattice structure for ancestral configurations arising from the relationship between gene trees and species trees.** *Discrete applied mathematics (Amsterdam, Netherlands : 1988)*  
Lappo, E., Rosenberg, N. A.  
2024; 343: 65-81
- **Counting the genetic ancestors from source populations in members of an admixed population.** *Genetics*  
Agranat-Tamir, L., Mooney, J. A., Rosenberg, N. A.  
2024
- **The distributions under two species-tree models of the total number of ancestral configurations for matching gene trees and species trees** *ADVANCES IN APPLIED MATHEMATICS*  
Disanto, F., Fuchs, M., Huang, C., Paningbatan, A. R., Rosenberg, N. A.  
2024; 152
- **Periodic Behavior of the Minimal Colijn-Plazzotta Rank for Trees with a Fixed Number of Leaves**  
Doboli, M. R., Hwang, H., Rosenberg, N. A.  
edited by Mailler, C., Wild, S.  
SCHLOSS DAGSTUHL, LEIBNIZ CENTER INFORMATICS.2024
- **Asymptotic Enumeration of Rooted Binary Unlabeled Galled Trees with a Fixed Number of Galls**  
Agranat-Tamir, L., Fuchs, M., Gittenberger, B., Rosenberg, N. A.  
edited by Mailler, C., Wild, S.  
SCHLOSS DAGSTUHL, LEIBNIZ CENTER INFORMATICS.2024
- **Tree Balance Indices: A Comprehensive Survey (Book Review)** *SIAM REVIEW*

- 
- Book Review Authored by: Rosenberg, N. A.  
2024; 66 (2)
- **Clumpping: cluster matching and permutation program with integer linear programming.** *Bioinformatics (Oxford, England)*  
Liu, X., Kopelman, N. M., Rosenberg, N. A.  
2023
  - **Cultural transmission of move choice in chess.** *Proceedings. Biological sciences*  
Lappo, E., Rosenberg, N. A., Feldman, M. W.  
2023; 290 (2011): 20231634
  - **Modeling the effects of consanguinity on autosomal and X-chromosomal runs of homozygosity and identity-by-descent sharing.** *G3 (Bethesda, Md.)*  
Cotter, D. J., Severson, A. L., Kang, J. T., Godrej, H. N., Carmi, S., Rosenberg, N. A.  
2023
  - **A Dirichlet model of alignment cost in mixed-membership unsupervised clustering.** *Journal of computational and graphical statistics : a joint publication of American Statistical Association, Institute of Mathematical Statistics, Interface Foundation of North America*  
Liu, X., Kopelman, N. M., Rosenberg, N. A.  
2023; 32 (3): 1145-1159
  - **Mathematical bounds on Shannon entropy given the abundance of the ith most abundant taxon.** *Journal of mathematical biology*  
Morrison, M. L., Rosenberg, N. A.  
2023; 87 (5): 76
  - **Prolonged delays in human microbiota transmission after a controlled antibiotic perturbation.** *bioRxiv : the preprint server for biology*  
Xue, K. S., Walton, S. J., Goldman, D. A., Morrison, M. L., Verster, A. J., Parrott, A. B., Yu, F. B., Neff, N. F., Rosenberg, N. A., Ross, B. D., Petrov, D. A., Huang, K. C., Good, et al  
2023
  - **The 2024 Feldman Prize.** *Theoretical population biology*  
Rosenberg, N. A.  
2023
  - **Record-matching of STR profiles with fragmentary genomic SNP data.** *European journal of human genetics : EJHG*  
Kim, J., Rosenberg, N. A.  
2023
  - **On the number of genealogical ancestors tracing to the source groups of an admixed population.** *Genetics*  
Mooney, J. A., Agranat-Tamir, L., Pritchard, J. K., Rosenberg, N. A.  
2023; 224 (3)
  - **A genetic and linguistic analysis of the admixture histories of the islands of Cabo Verde.** *eLife*  
Laurent, R., Szpiech, Z. A., da Costa, S. S., Thouzeau, V., Fortes-Lima, C. A., Dessarps-Freichy, F., Lémée, L., Utgé, J., Rosenberg, N. A., Baptista, M., Verdu, P.  
2023; 12
  - **A rarefaction approach for measuring population differences in rare and common variation.** *Genetics*  
Cotter, D. J., Hofgard, E. F., Novembre, J., Szpiech, Z. A., Rosenberg, N. A.  
2023
  - **All galls are divided into three or more parts: recursive enumeration of labeled histories for galled trees.** *Algorithms for molecular biology : AMB*  
Mathur, S., Rosenberg, N. A.  
2023; 18 (1): 1
  - **When is the allele-sharing dissimilarity between two populations exceeded by the allele-sharing dissimilarity of a population with itself?** *Statistical applications in genetics and molecular biology*  
Liu, X., Ahsan, Z., Martheswaran, T. K., Rosenberg, N. A.  
2023; 22 (1)

- **THE DISTRIBUTIONS UNDER TWO SPECIES-TREE MODELS OF THE NUMBER OF ROOT ANCESTRAL CONFIGURATIONS FOR MATCHING GENE TREES AND SPECIES TREES** *ANNALS OF APPLIED PROBABILITY*  
Disanto, F., Fuchs, M., Paningbatan, A. R., Rosenberg, N. A.  
2022; 32 (6): 4426-4458
- **A Dirichlet Model of Alignment Cost in Mixed-Membership Unsupervised Clustering** *JOURNAL OF COMPUTATIONAL AND GRAPHICAL STATISTICS*  
Liu, X., Kopelman, N. M., Rosenberg, N. A.  
2022
- **Limiting distribution of X-chromosomal coalescence times under first-cousin consanguineous mating.** *Theoretical population biology*  
Cotter, D. J., Severson, A. L., Carmi, S., Rosenberg, N. A.  
2022
- **Approximations to the expectations and variances of ratios of tree properties under the coalescent.** *G3 (Bethesda, Md.)*  
Lappo, E., Rosenberg, N. A.  
2022
- **Mathematical constraints on FST: multiallelic markers in arbitrarily many populations.** *Philosophical transactions of the Royal Society of London. Series B, Biological sciences*  
Alcala, N., Rosenberg, N. A.  
2022; 377 (1852): 20200414
- **Celebrating 50 years since Lewontin's apportionment of human diversity.** *Philosophical transactions of the Royal Society of London. Series B, Biological sciences*  
Edge, M. D., Ramachandran, S., Rosenberg, N. A.  
2022; 377 (1852): 20200405
- **FSTruct: an FST -based tool for measuring ancestry variation in inference of population structure.** *Molecular ecology resources*  
Morrison, M. L., Alcala, N., Rosenberg, N. A.  
2022
- **Enumeration of binary trees compatible with a perfect phylogeny.** *Journal of mathematical biology*  
Palacios, J. A., Bhaskar, A., Disanto, F., Rosenberg, N. A.  
2022; 84 (6): 54
- **The Probability of Joint Monophyly of Samples of Gene Lineages for All Species in an Arbitrary Species Tree.** *Journal of computational biology : a journal of computational molecular cell biology*  
Mehta, R. S., Steel, M., Rosenberg, N. A.  
2022
- **Extracting hierarchical features of cultural variation using network-based clustering** *EVOLUTIONARY HUMAN SCIENCES*  
Liu, X., Rosenberg, N. A., Greenbaum, G.  
2022; 4
- **Extracting hierarchical features of cultural variation using network-based clustering.** *Evolutionary human sciences*  
Liu, X., Rosenberg, N. A., Greenbaum, G.  
2022; 4
- **Ancient and modern genomics of the Ohlone Indigenous population of California.** *Proceedings of the National Academy of Sciences of the United States of America*  
Severson, A. L., Byrd, B. F., Mallott, E. K., Owings, A. C., DeGiorgio, M., de Flamingh, A., Nijmeh, C., Arellano, M. V., Leventhal, A., Rosenberg, N. A., Malhi, R. S.  
2022; 119 (13): e2111533119
- **Mathematical epidemiology for a later age.** *Theoretical population biology*  
Rosenberg, N. A., Boni, M. F.  
2022
- **The 2022 Feldman Prize.** *Theoretical population biology*  
Rosenberg, N. A.

2021

- **A compendium of covariances and correlation coefficients of coalescent tree properties.** *Theoretical population biology*  
Alimpiev, E., Rosenberg, N. A.  
2021
- **Enumeration of coalescent histories for caterpillar species trees and p-pseudocaterpillar gene trees.** *Advances in applied mathematics*  
Alimpiev, E., Rosenberg, N. A.  
2021; 131
- **A simple derivation of the mean of the Sackin index of tree balance under the uniform model on rooted binary labeled trees.** *Mathematical biosciences*  
King, M. C., Rosenberg, N. A.  
2021: 108688
- **A Population-Genetic Perspective on the Similarities and Differences among Worldwide Human Populations.** *Human biology*  
Rosenberg, N. A.  
2021; 92 (3): 135-152
- **The effect of consanguinity on coalescence times on the X chromosome.** *Theoretical population biology*  
Cotter, D. J., Severson, A. L., Rosenberg, N. A.  
2021
- **On the Colijn-Plazzotta numbering scheme for unlabeled binary rooted trees.** *Discrete applied mathematics (Amsterdam, Netherlands : 1988)*  
Rosenberg, N. A.  
2021; 291: 88–98
- **Variance and limiting distribution of coalescence times in a diploid model of a consanguineous population.** *Theoretical population biology*  
Severson, A. L., Carmi, S., Rosenberg, N. A.  
2021
- **Designing gene drives to limit spillover to non-target populations.** *PLoS genetics*  
Greenbaum, G., Feldman, M. W., Rosenberg, N. A., Kim, J.  
2021; 17 (2): e1009278
- **Population models, mathematical epidemiology, and the COVID-19 pandemic.** *Theoretical population biology*  
Rosenberg, N.  
2021
- **Skin deep: The decoupling of genetic admixture levels from phenotypes that differed between source populations.** *American journal of physical anthropology*  
Kim, J. n., Edge, M. D., Goldberg, A. n., Rosenberg, N. A.  
2021
- **Genetic Adaptation in New York City Rats.** *Genome biology and evolution*  
Harpak, A., Garud, N., Rosenberg, N. A., Petrov, D. A., Combs, M., Pennings, P. S., Munshi-South, J.  
2020
- **Distance metrics for ranked evolutionary trees.** *Proceedings of the National Academy of Sciences of the United States of America*  
Kim, J., Rosenberg, N. A., Palacios, J. A.  
2020
- **On the heterozygosity of an admixed population.** *Journal of mathematical biology*  
Boca, S. M., Huang, L., Rosenberg, N. A.  
2020
- **Human-Genetic Ancestry Inference and False Positives in Forensic Familial Searching.** *G3 (Bethesda, Md.)*  
Fortier, A. L., Kim, J., Rosenberg, N. A.  
2020
- **Modelling anti-vaccine sentiment as a cultural pathogen.** *Evolutionary human sciences*

- Mehta, R. S., Rosenberg, N. A.  
2020; 2: e21
- **Roadblocked monotonic paths and the enumeration of coalescent histories for non-matching caterpillar gene trees and species trees.** *ADVANCES IN APPLIED MATHEMATICS*  
Himwich, Z. M., Rosenberg, N. A.  
2020; 113
  - **Roadblocked monotonic paths and the enumeration of coalescent histories for non-matching caterpillar gene trees and species trees.** *Advances in applied mathematics*  
Himwich, Z. M., Rosenberg, N. A.  
2020; 113
  - **Measures of care fragmentation: Mathematical insights from population genetics.** *Health services research*  
Rosenberg, N. A., Zulman, D. M.  
2020
  - **High-resolution inference of genetic relationships among Jewish populations.** *European journal of human genetics : EJHG*  
Kopelman, N. M., Stone, L. n., Hernandez, D. G., Gefel, D. n., Singleton, A. B., Heyer, E. n., Feldman, M. W., Hillel, J. n., Rosenberg, N. A.  
2020
  - **Mathematical Properties of Linkage Disequilibrium Statistics Defined by Normalization of the Coefficient  $D = p_{AB} - p_A p_B$ .** *Human heredity*  
Kang, J. T., Rosenberg, N. A.  
2020: 1–17
  - **Fifty years of Theoretical Population Biology.** *Theoretical population biology*  
Rosenberg, N. A.  
2020
  - **Assortative mating by population of origin in a mechanistic model of admixture.** *Theoretical population biology*  
Goldberg, A. n., Rastogi, A. n., Rosenberg, N. A.  
2020
  - **The 2020 Feldman Prize.** *Theoretical population biology*  
Rosenberg, N. A.  
2019
  - **Network-based hierarchical population structure analysis for large genomic datasets.** *Genome research*  
Greenbaum, G., Rubin, A., Templeton, A. R., Rosenberg, N. A.  
2019
  - **Disease transmission and introgression can explain the long-lasting contact zone of modern humans and Neanderthals.** *Nature communications*  
Greenbaum, G., Getz, W. M., Rosenberg, N. A., Feldman, M. W., Hovers, E., Kolodny, O.  
2019; 10 (1): 5003
  - **The probability of reciprocal monophyly of gene lineages in three and four species**  
Mehta, R. S., Rosenberg, N. A.  
ACADEMIC PRESS INC ELSEVIER SCIENCE.2019: 133–47
  - **Some topics in theoretical population genetics: Editorial commentaries on a selection of Marc Feldman's TPB papers**  
Altenberg, L., Creanza, N., Fogarty, L., Hadany, L., Kolodny, O., Laland, K. N., Lehmann, L., Otto, S. P., Rosenberg, N. A., Van Cleve, J., Wakeley, J.  
ACADEMIC PRESS INC ELSEVIER SCIENCE.2019: 4–8
  - **The Relationship Between Haplotype-Based  $F_{ST}$  and Haplotype Length.** *Genetics*  
Mehta, R. S., Feder, A. F., Boca, S. M., Rosenberg, N. A.  
2019; 213 (1): 281-295
  - **The Relationship Between Haplotype-Based  $F_{ST}$  and Haplotype Length.** *Genetics*  
Mehta, R. S., Feder, A. F., Boca, S. M., Rosenberg, N. A.  
2019; 213 (1): 281-295

- **The Relationship Between Haplotype-Based FST and Haplotype Length.** *Genetics*  
Mehta, R. S., Feder, A. F., Boca, S. M., Rosenberg, N. A.  
2019
- **Analysis of author gender in TPB, 1991-2018** *THEORETICAL POPULATION BIOLOGY*  
Severson, A. L., Uricchio, L. H., Arbisser, I. M., Glassberg, E. C., Rosenberg, N. A.  
2019; 127: 1–6
- **Use of stochastic patch occupancy models in the California red-legged frog for Bayesian inference regarding past events and future persistence** *CONSERVATION BIOLOGY*  
Alcala, N., Launer, A. E., Westphal, M. F., Seymour, R., Cole, E. M., Rosenberg, N. A.  
2019; 33 (3): 685–96
- **FST and the triangle inequality for biallelic markers.** *Theoretical population biology*  
Arbisser, I. M., Rosenberg, N. A.  
2019
- **The Effect of Consanguinity on Between-Individual Identity-by-Descent Sharing** *GENETICS*  
Severson, A. L., Carmi, S., Rosenberg, N. A.  
2019; 212 (1): 305–16
- **Analysis of author gender in TPB, 1991-2018.** *Theoretical population biology*  
Severson, A. L., Uricchio, L. H., Arbisser, I. M., Glassberg, E. C., Rosenberg, N. A.  
2019
- **The Effect of Consanguinity on Between-Individual Identity-By-Descent Sharing.** *Genetics*  
Severson, A. L., Carmi, S., Rosenberg, N. A.  
2019
- **Probabilities of unranked and ranked anomaly zones under birth-death models.** *Molecular biology and evolution*  
Kim, A. n., Rosenberg, N. A., Degnan, J. H.  
2019
- **Interpreting polygenic scores, polygenic adaptation, and human phenotypic differences** *EVOLUTION MEDICINE AND PUBLIC HEALTH*  
Rosenberg, N. A., Edge, M. D., Pritchard, J. K., Feldman, M. W.  
2019: 26–34
- **Interpreting polygenic scores, polygenic adaptation, and human phenotypic differences.** *Evolution, medicine, and public health*  
Rosenberg, N. A., Edge, M. D., Pritchard, J. K., Feldman, M. W.  
2019; 2019 (1): 26–34
- **Enumeration of lonely pairs of gene trees and species trees by means of antipodal cherries** *ADVANCES IN APPLIED MATHEMATICS*  
Rosenberg, N. A.  
2019; 102: 1–17
- **ENUMERATION OF LONELY PAIRS OF GENE TREES AND SPECIES TREES BY MEANS OF ANTIPODAL CHERRIES.** *Advances in applied mathematics*  
Rosenberg, N. A.  
2019; 102: 1-17
- **Coalescent theory of migration network motifs.** *Molecular biology and evolution*  
Alcala, N. n., Goldberg, A. n., Ramakrishnan, U. n., Rosenberg, N. A.  
2019
- **Enumeration of compact coalescent histories for matching gene trees and species trees** *JOURNAL OF MATHEMATICAL BIOLOGY*  
Disanto, F., Rosenberg, N. A.  
2019; 78 (1-2): 155–88
- **G\*ST , Jost's D, and FST are similarly constrained by allele frequencies: a mathematical, simulation, and empirical study.** *Molecular ecology*  
Alcala, N., Rosenberg, N. A.

2018

- **Some topics in theoretical population genetics: Editorial commentaries on a selection of Marc Feldman's TPB papers.** *Theoretical population biology*  
Altenberg, L., Creanza, N., Fogarty, L., Hadany, L., Kolodny, O., Laland, K. N., Lehmann, L., Otto, S. P., Rosenberg, N. A., Van Cleve, J., Wakeley, J.  
2018
- **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.  
2018
- **Use of stochastic patch-occupancy models in the California red-legged frog for Bayesian inference regarding past events and future persistence.** *Conservation biology : the journal of the Society for Conservation Biology*  
Alcala, N., Launer, A. E., Westphal, M. F., Seymour, R., Cole, E. M., Rosenberg, N. A.  
2018
- **A genome scan for genes underlying adult body size differences between Central African hunter-gatherers and farmers** *HUMAN GENETICS*  
Pemberton, T. J., Verdu, P., Becker, N. S., Willer, C. J., Hewlett, B. S., Le Bomin, S., Froment, A., Rosenberg, N. A., Heyer, E.  
2018; 137 (6-7): 487–509
- **Mathematical and Simulation-Based Analysis of the Behavior of Admixed Taxa in the Neighbor-Joining Algorithm.** *Bulletin of mathematical biology*  
Kim, J., Disanto, F., Kopelman, N. M., Rosenberg, N. A.  
2018
- **The probability of reciprocal monophyly of gene lineages in three and four species.** *Theoretical population biology*  
Mehta, R. S., Rosenberg, N. A.  
2018
- **Matching CODIS genotypes to SNP genotypes using linkage disequilibrium**  
Edge, M. D., Algee-Hewitt, B. F. B., Kim, J., Pemberton, T., Li, J. Z., Rosenberg, N. A.  
WILEY.2018: 75–76
- **Bounding measures of genetic similarity and diversity using majorization.** *Journal of mathematical biology*  
Aw, A. J., Rosenberg, N. A.  
2018
- **The 2018 Marcus W. Feldman Prize in Theoretical Population Biology** *THEORETICAL POPULATION BIOLOGY*  
Rosenberg, N. A.  
2018; 119: 1–2
- **On the joint distribution of tree height and tree length under the coalescent.** *Theoretical population biology*  
Arbisser, I. M., Jewett, E. M., Rosenberg, N. A.  
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