Manuscript Title

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Authors

- **John Doe**
  XXXX-XXXX-XXXX-XXXX · johndoe · johndoe
  Department of Something, University of Whatever · Funded by Grant XXXXXXXX

- **Casey S. Greene**
  0000-0001-8713-9213 · cgreene · greenescientist
  Department of Systems Pharmacology and Translational Therapeutics, Perelman School of Medicine, University of Pennsylvania; Childhood Cancer Data Lab, Alex's Lemonade Stand Foundation

Abstract

Professional societies and the conferences that they manage provide an important venue for the dissemination of scientific knowledge. Being invited to deliver a keynote at an international society meeting or named a fellow of such a society is a major recognition. We sought to understand the extent to which such recognitions reflected the composition of their corresponding field. We collected keynote speaker invitations for the international meetings held by the International Society for Computational Biology as well as the names of Fellows. We compared these individuals with last and corresponding author contributions in the society's partner journals. We used multiple methods to estimate the race, ethnicity, gender, and nationality of authors and the recipients of these honors. Individuals from certain ancestries and countries appear to be under-recognized among honorees.

Introduction

Materials and Methods

Honoree Curation

ISCB Fellows Recipients

ISMB Keynote Speakers

PSB Keynote Speakers

RECOMB Keynote Speakers

Analysis of Bioinformatics and Computational Biology Publications

Estimation of Gender

Estimation of Race and Ethnicity

Estimation of Nationality

Constructing a Name-to-Nationality Dataset

Nationality Prediction with LSTM Neural Networks

Results

Curated Honorees and Literature-derived Potential Honorees

Assessing Gender Diversity of Authors and Honorees

Assessing the Racial and Ethnic Diversity of Authors and Honorees

Predicting Nationality with LSTM Neural Networks and Wikipedia

Assessing the Nationality Diversity of Authors and Honorees

Conclusions

Data and Resource Availability

References