DAKOTA E. MCCOY
reallymccoy.github.io/

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ACADEMIC POSITIONS

Stanford University, Stanford, CA, USA.	Fall 2021-present
Stanford Science Fellow, Materials Science & Biology	

EDUCATION

Harvard University, Cambridge, MA, USA.	2021
PhD in Evolutionary Biology	
Oxford University, Oxford, UK.	2015
MPhil in Environmental Policy	
Yale University, New Haven, CT, USA	2013
BS in Biology	

AWARDS AND GRANTS (SELECTED)

Trail-Crisp Medal for Biological Microscopy	2021
Stanford Science Fellowship	2021-present
Department of Defense NDSEG Graduate Fellowship (Army Research Office)	2016-2021
Rhodes Scholarship	2013-15

RESEARCH (SUSTAINABILITY, BIOLOGY, & APPLIED PHYSICS)

Overview and Impact
- work will be featured in a forthcoming United Nations Booklet on bioinspiration for sustainable design
- published 12 papers with more than 230 citations in the scientific literature (see Google Scholar)
- media coverage in the New York Times, Scientific American, Nat. Geographic, The Atlantic, and more.

Selected Projects
- **Super Black:** Demonstrated that birds-of-paradise and peacock spiders have structures which absorb >99% of light. With collaborators, fabricating bio-inspired coatings for solar panels. See McCoy et al. 2020, *Nature Communications,* LINK. McCoy et al. 2019, *Proc. Royal Soc. B,* LINK.
- **City Trees and Urban Ecology:** Assembled a dataset of over 5 million city trees from US cities with species, exact location, condition, and more. Forthcoming paper on biodiversity and equity
- **Biology of Pregnancy: S**howed that pregnancy hormones represent an arms race between maternal and fetal interests; explained the evolutionary drivers of common pregnancy complications. See McCoy and Haig 2020, *Trends in Ecology and Evolution,* LINK.

POLICY EXPERIENCE (SELECTED)

Data Scientist, CovidLoanTracker (www.covidloantracker.com/)	2020
Visualized data, analyzed data, and designed website for crowd-sourced effort to track the disbursement of government loans to >30,000 small businesses during Covid-19. Media coverage in CNN, Forbes,	
Researcher, Anaerobic Digestion for Clean Energy. Cambridge, MA & Quapaw Nation, OK.	2019-20
Wrote a white paper on the feasibility of using microbes to break down food waste. Final Report: LINK.	
Research Assistant, Environmental Policy. Oxford University, UK.	2014-15
Researched Corporate Environmental Management for Smith School of Enterprise and the Environment.	

SKILLS

- Computer Science: familiar with Python and R; some experience with MATLAB
- Hobbies: a cappella singing, running (top ten all-time at Yale in 60m hurdles), bookbinding

RAP MUSIC DISCOGRAPHY

Backup Dancer. La Perla, Puerto Rico, USA.	**2012**
Uncredited appearance as backup dancer in music video by Puerto Rican reggaeton artist Audi.	