Joseph Bak-Coleman

PERSONAL DETAILS

Address Department of Ecology and Evolutionary Biology

Guyot Hall

Princeton University Princeton, NJ, 08540

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EDUCATION

Ph.D. Ecology and Evolutionary Biology

2014-Present

Princeton University

Supervisors: Professor Iain Couzin, Professor Dan Rubenstein

Thesis Title: Collective wisdom in the anthropocene

M.S. Biology 2011-2014

Bowling Green State University

Supervisor: Professor Sheryl Coombs

Thesis Title: Comparing the role of the lateral line during rheotaxis in a sedentary and mobile fish species

B.S. Neuroscience

Bowling Green State University

MANUSCRIPTS

PUBLICATIONS

AWARDS AND GRANTS

Travel Award Flow Sensing in Air and Water

\$2000

2011

Summer Research Fellowship Center for Undergraduate Research and Scholarship

\$2500

2011

Summer Research Fellowship Science, Engineering, Technology Gateway Ohio

\$3500 2010

Bioinformatics Scholarship Choose Ohio First for Bioinformatics

 $\$4000 \ per \ annum \ 2009-2011$

POPULAR PRESS ARTICLES

The ignorance of the crowd. Scientific American, Nov. 2017

Why did Donald Trump get elected? Ask the bees. Wired, Dec. 2016

SEMINARS AND CONFERENCE PARTICIPATION

Collective Behavior, Social Media and Systemic Risk (Princeton University)	$^\dagger 2018$
Yale Institute For Network Science (Yale University)	$^\dagger 2018$
Distributed, Collective Computation in Biological and Artificial Systems (Janelia Farm)	2018
Integrated Behavioral Research Group (Princeton University)	2018
Metropolitan Society of Natural Historians (AMNH)	$^{\dagger}2016$
Integrated Behavioral Research Group (Princeton University)	2016
Animal Behavior Society (Bloomington, IN)	2012
International Congress of Neuroethology (College Park, MD)	2012
Ecological And Evolutionary Ecology of Fishes (Windsor, ON)	2012
J.P. Scott Seminar (BGSU)	2011
Flow Sensing in Air and Water (Bonn, Germany)	$^{\dagger}2011$
Undergraduate Honors Society Seminar (BGSU)	$^{\dagger}2011$
SETGO Symposium (BGSU)	2011
J.P. Scott Seminar (BGSU)	2010
	† invited

TEACHING

Guest Lecturer Princeton University

 $Comparative\ Physiology$

2017-2018

Assistant in Instruction Princeton University

Comparative Physiology Conservation Biology

Life on Earth: Chaos and Clockwork of Biological Design

2014 - 2018

Instructor Owens Community College

 $Introductory\ Biology$

2014

SERVICE TO PROFESSION

CBSMSR Conference Organizer, Princeton

Graduate Representative, Princeton

ABRCMS Recruiter, Phoenix AZ

Prospective Student Week Organizer, Princeton

IBRG Seminar Series Organizer, Princeton

Graduate Retreat Organizer, Princeton

President of BGSA, BGSU

TECHNICAL SKILLS

Python	Advanced
Bayesian Inference	Advanced
Machine Learning	Proficient
R	Proficient
Computer Vision	Proficient
Matlab	Proficient
AWS	Proficient
Deep Learning	Familiar

PEER REVIEW

Animal Behavior Biology Open Journal of Experimental Biology Proceedings B PLOS Computational Biology

REFERENCES

Prof. Iain Couzin

Max Planck Institute of Ornithology Department of Collective Behavior University of Konstanz Z8 Konstanz, DE icouzin@orn.mpg.de

Prof. Sheryl Coombs, Emeritus

Bowling Green State University Biology Department Biological Sciences Building Bowling Green, OH 43402 scoombs@bgsu.edu

Prof. Dan Rubenstein

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