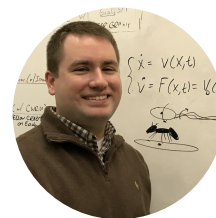


SHAWN D. RYAN, PH.D.

Research Scientist/Assistant Professor

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EXPERIENCE

Assistant Professor

Dept. of Mathematics, Cleveland State University

Aug. 2016 – Present Cleveland, OH

- Use Modeling, Analysis, and Simulation to understand Biological and Materials Systems
- Teach Undergraduate and Graduate courses
- Lead the Ryan Research Group

Postdoctoral Research Scholar

Dept. of Mathematics and LCI, Kent State University

Aug. 2014 – Aug. 2016 Kent, OH

- Mathematical Models for Liquid Crystal Systems
- Develop Numerical Algorithms for Solving ODE/PDE Systems

RESEARCH INTERESTS

Mathematical Biology: Self-Organization

Topics

- Swimming Bacteria
- Social Insects

Active Matter

Topics

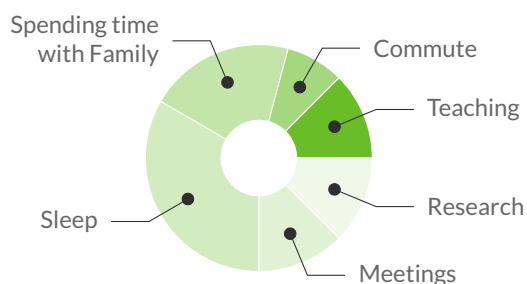
- Janus/Synthetic Particles
- Biomaterials
- Liquid Crystals

Math Bio Misc.

Topics

- Bacterial Cross-contamination in Food
- Modeling CBP and EVLP (w/ Cleveland Clinic)

TYPICAL DAY



LIFE PHILOSOPHY

"Choose a job you love and you will never have to work a day in your life."

MOST PROUD OF

Teaching Award
2012 Penn State Math Teaching Award

Pritchard Dissertation Award
2014 Penn State Dept. of Mathematics Outstanding Dissertation Award

Ryan Research Group
Supervised many graduate and undergraduate students

Publications in Top Journals
Including Sci. Reports, PRE, J. Math Bio, Bull. Math Bio.

STRENGTHS

Strong Work Ethic Timely Leader

Mathematical Biology PDEs

Numerical Analysis

LANGUAGES

English
German

EDUCATION

Ph.D. in Mathematics
Penn State University
Aug. 2009 – Aug. 2014

M.S. in Applied Mathematics
Univ. of Akron
Aug. 2007 – Aug. 2009

B.S. in Applied Mathematics
Univ. of Akron
Aug. 2005 – Aug. 2009