Daniel Wood, Ph.D.

CONTACT INFORMATION

Postdoctoral Research Fellow
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CAREER OBJECTIVE

- To apply my experience with mathematics, problem solving, and technology to find innovative solutions to problems in science, statistics and engineering

EDUCATION

- **The University of Texas at Arlington (UTA)**, Arlington, TX
  - Ph.D., Mathematics, August 2015 (GPA: 4.0/4.0)
  - B.A., Mathematics, May 2012, (GPA: 3.5/4.0, *Magna cum Laude*)

SKILLS AND QUALIFICATIONS

- Mathematical modeling of biological systems
  - ◇ Experience with MATLAB, C++, Python, and R
  - ◇ 5+ years experience in numerical analysis

WORK EXPERIENCE

- Postdoctoral Research Fellow at Fred Hutch **January 2016 to Present**
  - Designed and implemented mathematical HIV transmission models
  - ◇ Course Instructor at UTA (Postdoctoral Fellow) **August 2015 to December 2015**
    - Business Calculus
  - ◇ Course Instructor at UTA (Graduate Teaching Assistant) **August 2014 to August 2015**
    - College Algebra for Economics and Business Analaysis, Architectural Calculus
  - ◇ UTTER Student Mentor **June 2014 to December 2014**
    - Worked as a mentor to students in the Undergraduate Training in Theoretical Ecology Research (UTTER) Program at the University of Texas at Arlington, assisting in leading the students through undergraduate research in Mathematical Biology
  - ◇ National Science Foundation GK-12 MAVS Graduate Fellow **July 2013 to May 2014**
    - Taught lessons relating graduate research in Numerical Analysis to sixth grade mathematics students at Anderson Elementary in Arlington, TX

RESEARCH EXPERIENCE (SELECTED WORKS)

- Y. Zhao, **D. Wood**, H. Kojouharov, Y. Kuang, D. Dimitrov. 2016. Impact of population recruitment on the HIV epidemics and the effectiveness of HIV prevention interventions. *Bulletin of Mathematical Biology*. 78(10): 2057–2090 (http://dx.doi.org/10.1007/s11538-016-0211-z).
  - ◇ **D. Wood**, H. Kojouharov, D. Dimitrov. 2016. Universal approaches to approximate biological systems with nonstandard finite difference methods. *Mathematics and Computers in Simulation*, Published online: 2 May 2016 (http://dx.doi.org/10.1016/j.matcom.2016.04.007).
  - ◇ **D. Wood**, D. Dimitrov, H. Kojouharov. 2015. A nonstandard finite difference method for n-dimensional productive-destructive systems. *Journal of Difference Equations and Applications*. 21(3): 240–254 (http://dx.doi.org/10.1080/10236198.2014.997228).