

BIOGRAPHICAL SKETCH

CARRIE A. MANORE

Staff Scientist, A-1 Information Systems and Modeling; Analytics, Intelligence and Technology
Division; Los Alamos National Laboratory
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(A) PROFESSIONAL PREPARATION

Whitworth University, B.A. in Mathematics, minor in English (2002)

Eastern Washington University, M.S. in Mathematics (cryptography) (2004)

Oregon State University, Ph.D. in Mathematics (minor Ecosystem Informatics) (2011)

(B) APPOINTMENTS

2017-present Staff Scientist, Los Alamos National Laboratory

2016-2017 Director's Postdoctoral Fellow, Los Alamos National Laboratory

2011-2016 Postdoctoral Researcher, Tulane University

(C) SELECTED PUBLICATIONS

Carrie A. Manore, Richard S. Ostfeld, Folashade B. Augusto, Holly Gaff, and Shannon L. LaDeau. Defining the Risk of Zika and Chikungunya Virus Transmission in Human Population Centers of the Eastern United States. *PLOS Neglected Tropical Diseases*, 11(1):1–19, 01 2017.

Carrie A Manore, Justin K Davis, Rebecca C Christofferson, Dawn M Wesson, James M Hyman, and Christopher N Mores. Towards an Early Warning System for Forecasting Human West Nile Virus Incidence. *PLoS Currents Outbreaks*, 6, 2014.

Carrie A Manore, Kyle S Hickmann, Sen Xu, Helen J Wearing, and James M Hyman. Comparing dengue and chikungunya emergence and endemic transmission in *A. aegypti* and *A. albopictus*. *Journal of Theoretical Biology*, 356:174–191, 2014.

N. Chitnis, J. M. Hyman, and **C. A. Manore**. Modelling vertical transmission in vector-borne diseases with applications to Rift Valley fever. *Journal of Biological Dynamics*, 7:11–40, 2013.

Carrie A Manore, Kyle S Hickmann, James M Hyman, Ivo M Foppa, Justin K Davis, Dawn M Wesson, and Christopher N Mores. A network-patch methodology for adapting agent-based models for directly transmitted disease to mosquito-borne disease. *Journal of Biological Dynamics*, 9(1):52–72, 2015.

C. A. Manore, B. McMahon, J. Fair, J. M. Hyman, M. Brown, and M. LaBute. Disease properties, geography, and mitigation strategies in a simulation spread of rinderpest across the United States. *Veterinary Research*, 42(1):55, 2011.

(D) HONORS AND AWARDS

2018 Distinguished Mentor Award, LANL

2018 Distinguished Performance Award (Small Team), LANL

2016 Awards for Outstanding Research Articles in Biosurveillance, Second Prize, Scientific Achievement Category (International Society for Disease Surveillance)

2016 Outstanding Postdoc Presentation Award, Annual Postdoc Research Day, LANL

2014 Heidelberg Laureate Forum participant with Abel, Turing, Nevanlinna Prize and Fields Medal winners (one of 200 chosen world-wide out of 1600 applicants)

2012 Distinguished Dissertation Award in Mathematics, Physical Sciences, and Engineering, Oregon State University

- 2012 Lee Segel Prize for Best Student Paper, Society for Mathematical Biology
- 2011 Academic Achievement Award, Oregon State University Mathematics Department
- 2009 Best Mathematics Talk, LANL Annual Student Symposium
- 2004 Outstanding Graduate Instructor Award, Eastern Washington University

(D) SELECTED GRANTS AND FELLOWSHIPS (PI or Co-PI)

- 2018 PI, LDRD Early Career grant, \$416k, 2 years Mosquito Population Modeling
- 2018 PI, Director's Reserve \$75k Climate-driven Diseases
- 2018 Co-PI American Institute of Mathematics SQuARE grant, 3 years of travel for group
- 2016 PI, Director's Postdoctoral Fellow
- 2015 Co-PI American Institute of Mathematics SQuARE grant, 3 years of travel for group
- 2013 PI, NSF SEES Fellow Grant (2013-2016 plus no-cost extension) \$480k
- 2012 NIMBioS Short-term Visitor Grant
- 2011 Newcomb Institute Faculty Research Grant
- 2006 NSF IGERT Graduate Fellowship (Ecosystem Informatics IGERT at Oregon State)

(D) SELECTED INVITED TALKS

- 2018 Joint Mathematics Meeting
 - 2017 Society for Industrial and Applied Mathematics Annual Meeting
 - 2017 ISK Capabilities Review, Complex Systems Biology and Social Research talk, LANL
 - 2017 Association for Women in Mathematics Research Symposium
 - 2016 Integrative Biosurveillance conference, LANL
 - 2015 Biomathematics and Ecology: Education and Research Annual Meeting
- Invited talks to department colloquia* include: Tulane University, Dartmouth, Kansas State University, Colorado School of Mines, Northern New Mexico University
- Contributed Talks* include: Ecology and Evolution of Infectious Diseases conference, American Geophysical Union conference, Mathematical Biosciences Institute, American Society of Tropical Medicine and Hygiene

(D) PROFESSIONAL SERVICE

- Reviewer for more than 17 journals, including PNAS, Nature Communications, SIAM Journal on Applied Mathematics, Journal of Theoretical Biology, PLOS Neglected Tropical Diseases
- Invited Editor for paper in PLOS Computational Biology
- Co-editor for AWM Research Symposium Proceedings Volume (Springer)
- Co-organizer for 5 minisymposia at national and international conferences
- Co-organizer or invited attendee for 6 National Institute for Mathematical Biology and Synthesis (NIMBioS) workshops and working groups

(D) MENTORING, MEDIA, AND TRAINING

- Communication in Collaboration: Leading Collaborative Groups 3-day intensive workshop, NIMBioS
- Member of Mentoring Committee, Society for Mathematical Biology 2013-present
- Mentor for 25+ undergraduate and graduate students
- Various outreach activities to K-12 students close to Oregon State, Tulane, and LANL
- Research featured in LANL website, 1663; in SIAM News; Tulane News; Science Blog Posts
- Instructor of record for 20 undergraduate and graduate courses, including develop a grad course
- 6 intensive workshops and courses in mentoring, teaching, and leadership
- member, LANL XCP Diversity Working Group, 2017-present
- designed and presented talk on unconscious bias for 4 groups at LANL