

# Lauren White

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laurenwhitephd.com

GitHub: <https://github.com/whit1951>

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## RESEARCH INTERESTS

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I am broadly interested in One Health- the intersection of human, animal, and environmental health- and its implications for the spread of disease. The goal of my research is to characterize how *three different types of heterogeneity* can alter individual infectiousness in domestic animal and wildlife populations: (1) host heterogeneity: variation in host behavior and susceptibility, (2) contact heterogeneity: sociality that affects community structure within populations, and (3) spatial heterogeneity: patchiness in resource and host density across a landscape.

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## EDUCATION

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*University of Minnesota, Minneapolis-St. Paul, MN*

**Ph.D. Ecology, Evolution and Behavior**

**Sept. 2013-July 2018**

GPA: 4.0

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*University of Virginia, Charlottesville, VA*

**B.S. Biomedical Engineering and B.A. Spanish**

**May 2012**

Rodman Scholar; GPA: 3.98

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*University of Virginia Hispanic Studies Program, Valencia, Spain*

**Spanish coursework**

**Summer 2009**

Spanish literature and culture

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## PROFESSIONAL APPOINTMENTS

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**Post-doctoral Research Fellow**

**August 2018-**

National Socio-Environmental Synthesis Center (SESYNC)

**present**

College of Computer, Mathematical, and Natural Sciences

University of Maryland- College Park, Annapolis, MD

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## GRANTS & FELLOWSHIPS

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- University of Minnesota OACA Rapid Response funding for COVID-19 (co-PI)-\$10,000 **2020**
- University of Minnesota Institute on the Environment Mini Grant (co-PI)- \$3,000 **2019**
- Competitive SESYNC award to support post-doctoral research (\$143,000) **2018-present**
- Infectious Disease Evolution Across Scales (IDEAS) Research Exchange (co-PI)-\$6,000 **2018**
- University of Minnesota Informatics Institute-MnDRIVE Graduate Fellowship (\$35,042 salary and fringe + \$1,500 research and travel) **2017-2018**
- National Science Foundation Doctoral Dissertation Improvement Grant, "DISSERTATION RESEARCH: Using dynamic network models to reveal how heterogeneity in behavioral and immune competence impact disease dynamics in an emerging wildlife disease," (co- PI) \$15,620 **2017-2018**
- National Science Foundation Graduate Research Fellowship-\$138,000 **2013-2018**

- University of Minnesota Institute on the Environment Mini Grant- \$2,859 2017
- EEB Special Training Grant- \$2,211 2016
- Wally Dayton Wildlife Fellowship- \$2,500 2014
- EEB Summer Research Award- \$2,000 2014
- EEB Summer Fellowship- \$5,000 2014
- NOVEC Scholarship recipient- \$1,500 2008
- 4-H Ashby/Stowers Scholarship- \$500 2008

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#### HONORS AND AWARDS

- Best Dissertation Award, University of Minnesota - Honorable Mention 2019
- Short list for Journal of Animal Ecology Sidnie Manton Award: Review by Lauren White, James Forester and Meggan E. Craft: “Dynamic, spatial models of parasite transmission in wildlife: Their structure, applications and remaining challenges.” 2018
- American Institute of Biological Sciences (AIBS) Emerging Public Policy Leadership Award (EPPLA) Honorable Mention 2018
- One of the top four student abstracts- Allen D. Lemans Swine Conference (based on scientific merit and originality) 2016
- UVA Undergraduate Research and Design Symposium Finalist 2012
- Nominated to UVA Raven Society 2011
- Marie M. Giuliano Award- UVA Spanish Department- \$1,000 2011
- UVA Intermediate Honors (top 20% of class) 2010
- UVA Dean’s List 2008-2012
- Robert C. Byrd Federal Scholar Recipient (merit-based scholarship)- \$1,000/year for four years 2008-2012

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#### TRAVEL AWARDS

- *Veterinary Sciences* Conference Travel Award- \$790 2019
- EEB Summer Travel Grant- \$900 2018
- ESA Student Section Travel Award- \$75 2017
- EEB Summer Travel Grant- \$1,000 2017
- Network Modeling for Epidemics Workshop Fee Waiver- \$500 2016
- EEB Summer Travel Grant- \$862 2016
- AEGIS Conference Travel Grant- \$500 2016
- COGS Conference Travel and Career Development Grant- \$707 2015
- EEB Summer Travel Grant- \$778 2015
- GAPSA Student Travel Grant- \$200 2015

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#### PUBLICATIONS (\*Mentored students)

##### IN PREPARATION (full draft available upon request):

- Siva-Jothy, J., **White, L.A.**, Craft, M. E., and Vale, P. Population-level disease dynamics reflect individual heterogeneities in transmission.  
<https://www.biorxiv.org/content/10.1101/735480v1>
- Lee, N., Christensen-Dalsgaard, J., **White, L.A.**, Schrode, K.M., and Bee, M. Noise-control lungs help frogs solve a multi-species, cocktail party problem.

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#### IN REVIEW

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- Worsley-Tonks, K.E.L., Escobar, L.E., Biek, R., Craft, M.E., Streicker, D.G., **White, L.A.**, and Fountain-Jones, N.M. Using host traits to identify unknown bat and carnivore rabies reservoirs.

**PEER-REVIEWED:**

- **White, L.A.**, Vandewoude, S. & Craft, M.E. (In press). A mechanistic, stigmergy model of territory formation in an asocial animal: territorial behavior can dampen or drive persistence. *PLoS Computational Biology*.  
<https://www.biorxiv.org/content/10.1101/796045v1>
- Paseka, R., **White, L.A.**, van de Waal, D., Strauss, A., González, A., Everett, R., Peace, A., Seabloom, E., Frenken T., and Borer, E. (In press). Disease-mediated ecosystem services: Pathogens, plants, and people. *TREE*.
- **White, L.A.** and Mordechai, L. (In press). Modeling the Justinianic Plague: comparing hypothesized transmission routes. *PLoS ONE*.
- \*Gilbertson, M., **White, L.A.**, and Craft, M.E. (2020). Trade-offs with telemetry-derived contact networks for infectious disease studies in wildlife. *Methods in Ecology and Evolution*. doi: 10.1111/2041-210X.13355
- **White, L.A.**, Forester, J. D. and Craft, M. E. (2018). Understanding pathogen dynamics as a function of individual movement behavior across a heterogeneous landscape. *PNAS*. doi: 10.1073/pnas.1801383115
- **White, L.A.**, Forester, J. D. and Craft, M. E. (2018). The role of host heterogeneity in determining epidemic outcomes: Covariation between the physiological and behavioral components of transmission. *Oikos*, 127(4), 538-552. doi: 10.1111/oik.04527
- **White, L.A.**, Forester, J. D. and Craft, M. E. (2018). REVIEW: Mechanistic, spatial models of parasite transmission in wildlife: their structure, applications, and remaining challenges. *J. Anim. Ecol.* 87(3), 559-580. doi: 10.1111/1365-2656.12761
- Stadler, R., **White, L.A.**, Hu, K., Helmke, B., and Guilford, W. (2017). Direct measurement of cortical force generation and polarization in a living parasite. *Mol. Bio. Cell.* 28(14), 1912-1923. doi: 10.1091/mbc.E16-07-0518
- **White, L.A.**, Torremorell, M. and Craft, M.E. (2017). Influenza A virus in swine breeding herds: Combination of vaccination and biosecurity practices can reduce likelihood of endemic piglet reservoir. *Prev. Vet. Med.*, 138, 55-69. doi: 10.1016/j.prevetmed.2016.12.013
- **White, L.A.**, Forester, J.D. and Craft, M.E. (2017). Using contact networks to explore mechanisms of parasite transmission in wildlife. *Biol. Rev.*, 92, 389-409. doi:10.1111/brv.12236
- Eads, D.A., Bowser, J., Poonamallee, M., Molina, S., Neill, J., and **White, L.A.** (2016). Black-tailed prairie dogs selectively countermark rabbit urine: The scent of competition between a rodent and a lagomorph? *Ethology, Ecology & Evolution*, 28(1), 102-109. doi: 10.1080/03949370.2014.999828
- Ezenwa, V., Archie, E., Craft, M.E., Hawley, D., Martin, L., Moore, J. and **White, L.A.** (2016). Host behavior-parasite feedback: an essential link between animal behavior and disease ecology. *Proceedings B*, 283(1828), 20153078. doi: 10.1098/rspb.2015.3078.
- **White, L.A.**, Ortiz, Z., Cuervo, L.G., and Reveiz, L. (2011). Clinical trial regulation in Argentina: Overview and analysis of regulatory framework, use of existing tools, and researchers' perspectives to identify potential barriers. *Rev. Panam. Salud Publica*, 30(5), 445-452. doi: 10.1590/S1020-49892011001100007

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**CONFERENCE PROCEEDINGS:**

- **White, L.A.**, M. Torremorell & M.E. Craft. (2016) Implications of management interventions on a model of influenza A virus persistence within swine breeding herds. *Options IX for the Control of Influenza Conference*, Abstract # P-357, Chicago, IL, USA, p. 207.
- **White, L.A.**, M. Torremorell & M.E. Craft. (2016) "A stochastic, mathematical model of influenza A virus within swine breeding herds: Implications of possible management interventions. *Proceedings of the American Association of Swine Veterinarians*, New Orleans, LA, p. 310.
- Stadler, R. V., **White, L.**, Helmke, B.P, Hu, K., and Guilford, W.H. Measuring actomyosin function in a living parasite using a laser trap." *Biophysical Journal*, 106(2):787a. Presented at the Biophysical Society 58<sup>th</sup> Annual Meeting on February 19<sup>th</sup> 2014, San Francisco, CA. doi: 10.1016/j.bpj.2013.11.4313
- **White, L.**, Walton, D.B., and Guilford, W. Multivalent systems of catch bonds exhibit ideal bond behavior. *Biophysical Journal*, 102(3):592. Presented at the Biophysical Society 56<sup>th</sup> Annual Meeting on February 28<sup>th</sup> 2012, San Diego, CA. doi: 10.1016/j.bpj.2011.11.3228

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**PRESENTATIONS (\*Mentored students)**

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**INVITED INTERNATIONAL SEMINARS:**

- **White, L.A.** *The effects of heterogeneity in pathogen transmission on disease modeling predictions.* Research Seminar at Roslin Institute, University of Edinburgh. Presented March 12, 2019.
- **White, L.A.**, Forester, J.D. and Craft, M.E. *Disease outbreak thresholds emerge from interactions between movement behavior, landscape structure, and epidemiology.* Movement Ecology of Animals, Gordon Research Seminar, Lucca (Barga), Italy, presented March 3, 2019.

**INVITED PRESENTATIONS:**

- **White, L.A.** The effects of heterogeneity in pathogen transmission on disease modeling predictions. University of Maryland, Behavior, Ecology, Evolution, and Systematics seminar series, presented September 9, 2019.
  - **White, L.A.** Inferring contact behavior to predict pathogen spread in an asocial predator: Preliminary explorations and challenges. NSF EEID FELIDAE Project Retreat, Granby, CO, August 23, 2019.
  - **White, L.A.** The effects of heterogeneity in pathogen transmission on disease modeling predictions. Colorado State University, Dept. of Microbiology, Immunology & Pathology seminar series, April 18, 2019.
  - **White, L.A.**, Craft, M.E., VandeWoude, S. Integrating host movement, genomic, and spatial data to understand the effects of human-altered landscapes on pathogen spread. Fagan lab meeting, University of Maryland College Park. April 11, 2019.
  - **White, L.A.**, Craft, M.E., VandeWoude, S. Integrating host movement, genomic, and spatial data to understand the effects of human-altered landscapes on pathogen spread. NSF Program Offices, Washington, D.C. December 20, 2018.
  - **White, L.A.** Disease outbreak thresholds emerge from interactions between movement behavior, landscape structure, and epidemiology. NSF EEID FELIDAE Project Retreat, CSU Mountain Campus, Fort Collins, CO, August 25, 2018.
  - **White, L.A.** The effects of heterogeneity in pathogen transmission on disease modeling predictions. University of Edinburgh. May 22, 2018.
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- **White, L.A.**, Forester, J.D. and Craft, M.E. The effects of heterogeneity in pathogen transmission on disease modeling predictions. Georgetown University, Washington, D.C. Shweta Bansal's lab meeting, October 4, 2017.
  - **White, L.A.**, Forester, J.D. and Craft, M.E. The role of host heterogeneity in determining epidemic outcomes: Covariation between the physiological and behavioral components of pathogen transmission. Virginia Tech, Blacksburg, VA. Dana Hawley's lab meeting, October 27, 2017.

#### CONFERENCES:

- \*Gilbertson, M., **White, L.A.** and Craft, M.E. Inferring contact behavior to predict pathogen spread: Pitfalls of telemetry-derived contact networks of wildlife. Presented at the 2019 ESA/USSEE Joint Meeting, August 11-16, 2019, Louisville, Kentucky.
- \*Gilbertson, M., **White, L.A.** and Craft, M.E. Pitfalls of telemetry-derived contact networks of wildlife. Presented at the 68th Annual International Wildlife Disease Association Conference, August 4-9, 2019, Tahoe City, California.
- **White, L.A.**, Forester, J.D. and Craft, M.E. The role of host heterogeneity in determining epidemic outcomes: Covariation between the physiological and behavioral components of pathogen transmission. Ecological Society of America, Portland, Oregon, August 8, 2017. F1000Research 2017, 6:1853 (slides) (doi: [10.7490/f1000research.1114983.1](https://doi.org/10.7490/f1000research.1114983.1))
- **White, L.A.**, Forester, J.D. and Craft, M.E. Understanding pathogen dynamics as a function of individual movement behavior across a heterogeneous landscape. Ecology & Evolution of Infectious Disease Conference, Santa Barbara, California, June 25, 2017.
- **White, L.A.**, Torremorell, M. and Craft, M.E. Implications of management interventions on a model of influenza A virus persistence within swine breeding herds. Oral talk presented at Lemna Swine Conference, Sept. 18, 2016, St. Paul, MN. \*One of the top four student abstracts (based on scientific merit and originality)
- **White, L.A.**, Torremorell, M. and Craft, M.E. Modeling influenza virus in swine farms. Oral talk presented at preconference workshop, Lemna Swine Conference, Sept. 18, 2016, St. Paul, MN.
- **White, L.A.**, Forester, J.D. and Craft, M.E. Covariation between the behavioral and physiological components of transmission on epidemic outcomes. Oral talk presented at Animal Behavior Society 2016 Meeting, July 30-August 3, 2016, Columbia, MO.
- **White, L.A.**, Forester, J.D. and Craft, M.E. The effects of covariation between the behavioral and physiological components of transmission on epidemic outcomes. Oral talk presented at ISVEE Conference, Nov 7, 2015, Mérida, Mexico.
- Craft M.E., **White, L.A.**, Reynolds, J.J.H. and Torremorell, M. Mathematical modeling of influenza A virus dynamics within swine farms and the effects of vaccination. ISVEE Conference, Nov 7, 2015, Mérida, Mexico.

#### POSTERS:

- **White, L.A.**, Craft, M.E. & VandeWoude, S. A mechanistic, stigmergy model of territory formation in an asocial predator: consequences for pathogen transmission. Ecology & Evolution of Infectious Disease Conference, Princeton, NJ, June 10-13, 2019.
  - \*Gilbertson, M., **White, L.A.** and Craft, M.E. Pitfalls of telemetry-derived contact networks of wildlife. Ecology & Evolution of Infectious Disease Conference, Princeton, NJ, June 10-13, 2019.
  - **White, L.A.**, Craft, M.E., Vickers, W. & VandeWoude, S. Inferring contact behavior to predict pathogen spread in an asocial predator: preliminary explorations and challenges.
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Movement Ecology of Animals, Gordon Research Conference, Lucca (Barga), Italy, March 4-5, 2019.

- **White, L.A.**, Hawley, D.M., Adelman, J.S. & Craft, M.E. Using dynamic network models to reveal how heterogeneity in behavioral and immune competence impact disease dynamics in an emerging wildlife disease. Poster presented at Ecology & Evolution of Infectious Disease Conference, Glasgow, Scotland, May 29-June 1, 2018.
- **White, L.A.**, Torremorell, M. and Craft, M.E. A stochastic, mathematical model of influenza A virus within swine breeding herds: implications of possible management interventions. Poster presented at iCOMOS Conference, Minneapolis, MN, April 30, 2018.
- **White, L.A.**, Forester, J.D. and Craft, M.E. The role of host heterogeneity in determining epidemic outcomes: Covariation between the physiological and behavioral components of pathogen transmission. Poster presented at Jacques Monod Conference, Roscoff, France, October 30- November 3, 2017.
- **White, L.A.**, Forester, J.D. and Craft, M.E. Understanding pathogen dynamics as a function of individual movement behavior across a heterogeneous landscape. Poster presented at Animal Behavior Society Conference, Toronto, Ontario, June 14, 2017.
- **White, L.A.**, Torremorell, M. and Craft, M.E. A stochastic, mathematical model of influenza A virus within swine breeding herds: implications of possible management interventions. Poster presented at Minnesota Supercomputing Institute Poster Exhibition, St. Paul, MN, April 25, 2017.
- **White, L.A.**, M. Torremorell & M.E. Craft. Implications of management interventions on a model of influenza A virus persistence within swine breeding herds. Leman Swine Conference, St. Paul, MN, Sept. 2016.
- **White, L.A.**, M. Torremorell & M.E. Craft. Implications of management interventions on a model of influenza A virus persistence within swine breeding herds. Options IX for the Control of Influenza, Chicago, IL, Aug. 2016.
- **White, L.A.**, Forester, J.D. and Craft, M.E. Covariation between the behavioral and physiological components of transmission affects epidemic outcomes. Poster presented at Ecology & Evolution of Infectious Disease Conference, Ithaca, NY, June 3-5, 2016.
- **White, L.A.** Torremorell, M. & Craft, M.E. A stochastic, mathematical model of influenza A virus within swine breeding herds: Implications of possible management interventions. American Association of Swine Veterinarians, New Orleans, LA, Feb. 2016.
- **White, L.A.**, Torremorell, M. and Craft, M.E. A stochastic, mathematical model of influenza A virus within swine breeding herds: implications of possible management interventions. Poster presented at Allen D. Leman Swine Conference, St. Paul, MN, September 20, 2015.
- **White, L.A.**, Forester, J.D., and Craft, M.E. Exploring the differences between observed and real contact networks: implications for pathogen transmission. Poster presented at Ecology & Evolution of Infectious Disease Conference, Athens, GA, May 26-29, 2015.
- **White, L.A.**, Forester, J.D., and Craft, M.E. Using networks to model plague dynamics in prairie dogs. Poster presented at Ecology & Evolution of Infectious Disease Conference, Colorado State University, Fort Collins, CO, June 1-4, 2014.

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## TEACHING EXPERIENCE

*University of Maryland*

**Data Carpentry Certified Instructor**

**Spring 2019**

*Virginia Tech*

**Guest Lecturer**

**October 2017**

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- Developed and presented a 75-minute lecture and discussion on “Contact network models in wildlife” to a class of 20 students enrolled in "Infectious Disease Ecology" (BIOL 4564/5564)
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*University of Minnesota*

**Spring 2014**

**Teaching Assistant**

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- Lab instructor for two sections of BIOL 3408W: Ecology (20 hrs/wk)
  - Developed and presented a 50-minute lecture on the “Ecology of Infectious Diseases” to a class of 150 students
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*University of Minnesota*

**Fall 2013**

**Teaching Assistant**

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- Lab instructor for BIOL 2002: Foundations of Biology (20 hrs/wk)
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**MENTORSHIP**

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- Marie Gilberston, Ph.D. student, Department of Population Veterinary Medicine, University of Minnesota
  - Meredith Meyers, high school student, Bryam Hills High School, NY; recognized as 2020 Regeneron STS Scholar for her international science fair project:  
[https://www.societyforscience.org/regeneron-sts/2020-scholars/?utm\\_source=&utm\\_medium=&utm\\_campaign=](https://www.societyforscience.org/regeneron-sts/2020-scholars/?utm_source=&utm_medium=&utm_campaign=)
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**RELATED EXPERIENCE**

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*Flow Yoga, Leesburg, VA*

**March 2016-July 2018**

**Yoga Instructor, RYT 200**

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- Teaching and guiding classes of up to twenty students three times per week
  - Planned, organized, and led “Cat yoga” classes with Loudoun County Animal Shelter
  - Conducting class sign-ins and retail purchases for studio clients
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*Leesburg Veterinary Hospital, Leesburg, VA*

**August 2012-May 2013**

**Veterinary Assistant**

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- Created estimates for clients, obtained patient histories, filled prescriptions, answered questions about prescription use with clients, recorded and entered all charges and lab work relating to a patient’s appointment or hospitalization
  - Ran diagnostic lab work: blood tests, ear cytologies, fecal floats and smears
  - Prepared surgery packs and maintained dental and surgery areas and equipment for daily operations
  - Helped with patient handling, restraint, and care; drew blood for diagnostics, administered SQ fluids, helped with placement of catheters and intubation
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*USGS and Colorado State University*

**June-August 2012**

**Field Technician**

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- Set and maintained small animal traps in prairie dog colonies for sylvatic plague study
  - Handled, restrained, measured, and tagged prairie dogs
  - Made behavioral observations on grooming and foraging habits in prairie dogs
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*Molecular Biomechanics Laboratory, University of Virginia*

**Fall 2010-**

**Undergraduate Research Assistant**

**Spring 2012**

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Advisor: Dr. William Guilford

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- Senior thesis and Capstone project (Fall 2011-Spring 2012): “The mechanobiology of *Toxoplasma gondii*”- exploring how the motility of this parasite relates to its virulence
    - Culturing HFF cells, maintaining *T. gondii in vitro*
    - Use of laser trap system to quantify behavior of actin and myosin motor units in live parasites
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- Independent research (Spring & Summer 2011):
    - Pursued an independent computational project on the catch-slip bond behavior of E-selectins and their receptors in the phenomenon of leukocyte rolling and adhesion
    - Developed a Monte Carlo computational model and closed-form Markov Chain solutions to predict mean bond lifetime of catch-slip bonds using experimentally determined values for rate constants, molecule elasticity, and surface geometries

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*Pan American Health Organization, Buenos Aires, Argentina*

**May-August, 2010**

**Intern**

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- Investigated clinical trial registration practices in the province of Buenos Aires, conducted research on currently registered trials and existing legislation
  - Designed and administered a survey instrument, interviewed 30+ investigators and sponsors in Spanish
  - Compiled results and presented findings at Washington D.C. headquarters

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*Blue Ridge Veterinary Associates, Purcellville, VA*

**July-August, 2009**

**Veterinary Technician Assistant**

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- Monitored post-surgery patients, sterilized surgery pack, and ran basic in-house diagnostic tests
  - Admitted patients into hospital and filled prescriptions
  - Helped with large animal farm calls

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**SKILLS**

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- **Language:** Spanish fluency, basic French
  - **Laboratory:** motility assays, gel electrophoresis, cell culture, PCR
  - **Computer:** proficient in MATLAB, Mathematica, Java, R, Microsoft Office, and WordPress, Git/GitHub

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**PROFESSIONAL MEMBERSHIPS**

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- AAAS (2017-present)
  - British Ecological Society (2017-present)
  - Ecological Society of America (2017-present)
  - Animal Behavior Society (2016-present)
  - Tau Beta Pi Engineering Honor Society (2012-present)
  - University of Virginia Raven Society (2011-present)

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**SCIENCE WRITING & COMMUNICATION**

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- “SESYNC’s Public Health Immersion Workshop: Interdisciplinary Themes of Resilience and Social Determinants of Health” SESYNC February 2020 Newsletter: <https://bit.ly/2UjMomL>
  - “‘We All Have Bad First Drafts’: Lessons from a Professional Science Writer”: SESYNC January 2020 Newsletter: <https://bit.ly/37Ny1Lg>
  - “Three Lessons I Learned from Attending the 2019 Science Writers Conference as a Scientist” SESYNC December 2019 Newsletter: <https://bit.ly/34OfXPq>
  - “Modern Insights into Plagues of Old” SESYNC November 2019 Newsletter: <https://bit.ly/2Mh4xgv>
  - Summary of the 2018 Ecology Evolution & Infectious Diseases Conferences for *Journal of Animal Ecology* blog on June 19, 2018: <https://bit.ly/2Ublbj0>
  - “The intersection of wildlife disease, conservation, and human health” for *Journal of Animal Ecology* blog on May 18, 2018: <https://bit.ly/2CO84hC>
  - “Spatial disease models: picking a ‘useful’ model for pressing ecological questions” for *Journal of Animal Ecology* blog on November 1, 2017: <https://bit.ly/2FIQ74O>
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- “Painted turtles” for the Loudoun County Wildlife Conservancy’s *Habitat Herald*, Spring 2017: <https://bit.ly/2UdN5PW>
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### **SCIENCE OUTREACH**

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- Skype-a-Scientist, January 24<sup>th</sup> 2020-4<sup>th</sup> grade class in New Jersey
  - Letters to a Pre-Scientist with a 7<sup>th</sup> grader in Santa Ana, CA- Fall 2019
  - Skype-a-Scientist, November 26<sup>th</sup> 2019- 5<sup>th</sup> grade class, Kansas City, MO
  - Visited with State Senator Sarah Elfreth to discuss funding for basic science research during American Institute of Biological Sciences Congressional Visits Day. Fall 2019
  - TEDMED Research Scholar 2019 ([https://blog.tedmed.com/2020\\_researchscholars/](https://blog.tedmed.com/2020_researchscholars/))
  - Skype-a-Scientist, May 24, 2019- thirty 4<sup>th</sup> & 5<sup>th</sup> grade girls in New York, NY
  - Letters to a Pre-Scientist with a 7<sup>th</sup> grader in Santa Ana, CA- Spring 2019
  - Skype-a-Scientist, Sept. 24, 2018- thirty 4<sup>th</sup> & 5<sup>th</sup> grade girls at Bethlehem Elementary School, Taylorsville, NC
  - Market Science (marketsci.org), May 5<sup>th</sup> 2018, Midtown Farmers Market, MN. Discussed and demonstrated parasites with ~200 members of the general public (61 kids + 156 adults, with 85 long visits).
  - Animal Behavior Society Outreach Fair, June 12th 2017, Toronto, Ontario, Canada. Discussed disease transmission and modeling using the Vax game with ~100 K-12 children.
  - Animal Behavior Society Outreach Fair, July 30th 2016, Colombia, MO. Educated families and K-12 children in telemetry and radio tracking methods for wildlife monitoring.
  - Visited with Representative Barbara Comstock’s staff to discuss funding for basic science research during American Institute of Biological Sciences Congressional Visits Day. Fall 2016 & 2017.
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### **PRESS COVERAGE**

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- Minnesota Supercomputing Institute (March 15, 2019). “Research spotlight: Modeling how diseases spread”: <https://bit.ly/2VexPyG>
  - University of Minnesota. (June 26, 2018). “Research brief: Habitat fragmentation can promote disease outbreaks”: <https://bit.ly/2Vke6ZC>
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