

Tatum Mortimer

Curriculum Vitae

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Education

- 2012–2017 **Ph.D., Microbiology**, *University of Wisconsin-Madison*, Madison, Wisconsin.
Microbiology Doctoral Training Program, Graduated May 2017
- 2008–2012 **B.S., Microbiology and Genetics**, *University of Georgia*, Athens, Georgia.
Summa Cum Laude, Highest Honors, Graduated May 2012

Research Experience

- 2017–present **Postdoctoral Research Fellow**, *Grad Lab*, Department of Immunology and Infectious Diseases, Harvard T.H. Chan School of Public Health, Boston, Massachusetts.
Genomic epidemiology, transmission, antibiotic resistance of *Neisseria gonorrhoeae*
- 2012–2017 **Graduate Research Assistant**, *Pepperell Lab*, Department of Medical Microbiology and Immunology, University of Wisconsin-Madison, Madison, Wisconsin.
Thesis: Roles of Recombination and Selection in Shaping Pathogenic Bacterial Genomes
- 2009–2012 **Undergraduate Research Assistant**, *Sanchez Lab*, Department of Infectious Diseases, University of Georgia, Athens, Georgia.
Molecular epidemiology of *Staphylococcus aureus* in companion animals

Publications

- 2020 Bohr LL, **Mortimer TD**, Pepperell CS. Lateral gene transfer shapes diversity of *Gardnerella* spp. *Front Cell Infect Microbiol*.
- 2020 Palace, SG, Wang Y, Rubin DHF, Welsh MA, **Mortimer TD**, Cole K, Eyre DW, Walker S, Grad YH. RNA polymerase mutations cause cephalosporin resistance in clinical *Neisseria gonorrhoeae* isolates. *eLife* 9, e51407.
- 2018 Doroshenko A, Pepperell CS, Heffernan C, Egedahl ML, **Mortimer TD**, Smith TM, Busan HE, Tyrrell GJ, Long R. Epidemiological and genomic determinants of tuberculosis outbreaks in First Nations communities in Canada. *BMC Medicine* 16(1):128.
- 2018 **Mortimer TD**, Grad YH. Applications of genomics to slow the spread of multidrug-resistant *Neisseria gonorrhoeae*. *Annals of the New York Academy of Sciences*.
- 2018 **Mortimer TD**, Weber AM, Pepperell CS. Signatures of Selection at Drug Resistance Loci in *Mycobacterium tuberculosis*. *mSystems* 3:e00108-17.

- 2020 Ma KC*, **Mortimer TD***, Hicks AL, Wheeler NE, Sanchez-Buso L, Golparian D, Taiaroa G, Rubin DHF, Wang Y, Williamson DA, Unemo M, Harris SR, Grad YH. Increased antibiotic susceptibility in *Neisseria gonorrhoeae* through adaptation to the cervical environment. bioRxiv.

*contributed equally

Fellowships

- 2019-2021 National Institute of Allergy and Infectious Diseases NRSA Individual Postdoctoral Fellowship (F32)
2014-2017 National Science Foundation Graduate Research Fellowship
2012-2013 National Institutes of Health Molecular Biosciences Training Grant (T32) Recipient
2008-2012 University of Georgia Foundation Fellowship

Awards and Honors

- 2016 UW-Madison Graduate School Student Research Travel Grants Conference Presentation Award
2013 SISMID Tuition and Travel Scholarship
2012 Phi Beta Kappa Honors Society
2011 CURO Scholar Distinction
2008 Robert C. Byrd Honors Scholarship

Conference Presentations

- 2019 **Applied Bioinformatics and Public Health Microbiology**, *Poster*, Wellcome Genome Campus, UK.
"Genomic epidemiology of *Neisseria gonorrhoeae* in New York City"
2016 **Lake Arrowhead Microbial Genomics**, *Oral Presentation & Poster*, Lake Arrowhead, California.
"An ancient emerging infection as a cause of maternal sepsis in Late Byzantine Troy"
2016 **ASM Microbe**, *Oral Presentation*, Boston, Massachusetts.
"Adaptation of the Type VII Secretion System"
2014 **Evolution**, *Poster*, Raleigh, North Carolina.
"Detecting Distributive Conjugal Transfer in Mycobacteria from Whole Genome Sequences"
2011 **4th Congress of European Microbiologists**, *Poster*, Geneva, Switzerland.
"Epidemiology of Equine Staphylococcus aureus in Kentucky and Georgia from 1995-2003"

Workshops

- 2015 Workshop on Evolutionary Systems Biology & Modeling - University of Wisconsin-Madison
2015 Open Science Grid User School - University of Wisconsin-Madison

- 2014 Software Carpentry - University of Wisconsin-Madison
- 2013 Summer Institute in Statistics and Modeling in Infectious Diseases (SISMID) - University of Washington
- 2013 Workshop on New Methods for Phylogenomics and Metagenomics- University of Texas at Austin

--- Campus Seminars & Symposia

- 2017 **Perlman Symposium**, *Poster*, Madison, Wisconsin.
"Signatures of positive selection at *Mycobacterium tuberculosis* drug resistance loci"
- 2016 **ComBEE**, *Oral Presentation*, Madison, Wisconsin.
"Using Comparative Genomics and Population Genetics to Study Pathogen Evolution"
- 2016 **Evolution Seminar Series**, *Oral Presentation*, Madison, Wisconsin.
"Adaptation of the Type VII Secretion Systems"
- 2016 **MDTP Student Seminar Series**, *Oral Presentation*, Madison, Wisconsin.
"Mysteries of the Type VII Secretion System in Mycobacteria"
- 2015 **MBTG Seminar Series**, *Chalk Talk*, Madison, Wisconsin.
"Effects of lateral gene transfer on mycobacteria genomes"
- 2014 **MDTP Student Seminar Series**, *Oral Presentation*, Madison, Wisconsin.
"The Ancient Vagina Monologues"
- 2013 **MBTG Seminar Series**, *Literature Review*, Madison, Wisconsin.
"Distributive Conjugal Transfer in *Mycobacterium smegmatis*"
- 2011 **CURO Symposium**, *Oral Presentation*, Athens, Georgia.
"Epidemiology of Equine Staphylococcus aureus in Kentucky and Georgia from 1995-2003"
- 2010 **CURO Symposium**, *Poster*, Athens, Georgia.
"Epidemiology of Equine Staphylococcus aureus in Kentucky and Georgia from 1995-2003"

--- Teaching Experience

- 2015 Teaching Practicum- Microbial Genetics and Molecular Machines (MICRO 470), University of Wisconsin-Madison

--- Mentoring

Undergraduates

- 2019 Marissa Duckett- BPH Summer Internship
- 2016 Sam Larson- Bio 152 Independent Research Project, Directed Study
- 2014-2016 Alex Weber- Bio 152 Independent Research Project, Directed Study
- 2015-2016 Hailey Bussan- Directed Study, Microbiology Capstone
- 2014 Marisol Wolf- NSF REU, McNair Scholar

High School Students

2017 Tia Parisi- Summer Internship

Service

Professional

2014–Present Manuscript Review- *Genome Biology and Evolution*, *Microbial Genomics*, *G3: Genes/Genomes/Genetics*, *Nature Communications*, *International Journal of STD & AIDS*, *Sexually Transmitted Diseases*

2019–Present Broad Institute IDMP Seminar Series Planning Committee

2016 Peer Reviewer- UW-Madison Research Travel Award

2015 Group Leader- UW-Madison ComBEE Python Study Group

Community Outreach

2019–2020 Letters to a Pre-Scientist

2019 Presentation for Boston Leadership Institute - Boston, Massachusetts

2016 Women in STEM Symposium - Madison, Wisconsin

2013–2016 Expanding Your Horizons - Madison, Wisconsin

2015 Snacks with Scientists - Madison, Wisconsin