### LINH N. TRAN

Lnt@email.arizona.edu

**Education** 

2018-present University of Arizona, Tucson, AZ

Ph.D. Genetics, expected, GPA: 4.00

Minors: Molecular Medicine, Ecology & Evolutionary Biology

2016–2018 University of Pennsylvania, Philadelphia, PA

Post-baccalaureate courses: Intro Programming, Intro Statistics, Field Botany

2012–2016 Bryn Mawr College, Bryn Mawr, PA

B.A. Chemistry, Biochemistry Concentration, Cum Laude, GPA: 3.59

2013 Nanyang Technological University, Singapore

International Summer School Diploma: Sociology & Political Science

**Research & Professional Experience** 

2020-present Graduate Research Assistant, University of Arizona

PI: Ryan Gutenkunst, PhD, Associate Professor, Molecular & Cellular Biology

Applying neural networks to population genetics inference methods for more accurate and

computationally efficient analysis of big genomic data sets. Supervising two undergraduate students working on the project.

2019–2020 Graduate Research Assistant, University of Arizona

PI: Felicia Goodrum, PhD, Professor, Immunobiology, BIO5

Investigating the viral and cellular determinants of human-cytomegalovirus-induced

myelosuppression in hematopoietic progenitor cells.

2018–2019 First-year Rotation Graduate Research Assistant, University of Arizona

Rotations: • with Prof. Rebecca Page, Chemistry & Biochemistry: investigating the structure and function

of protein phosphatase 6 with X-ray crystallography

with Prof. Felicia Goodrum, Immunobiology: investigating the role of human cytomegalovirus

protein UL135 isoforms in viral replication and latency

with Prof. Jared Churko, Cellular & Molecular Medicine: conducting differential gene

expression analysis of arrhythmogenic cardiomyopathy

2016–2018 Organic Chemistry Teaching Lab Technician, University of Pennsylvania

Supervisor: Sally Mallory, PhD, Chemistry Senior Lecturer

Managed the organic chemistry teaching lab facility; assisted professors, graduate teaching assistants, and students taking organic chemistry lab; recruited, trained, and supervised

several work-study undergraduate students

2015–2016 Undergraduate Research Assistant, Bryn Mawr College

PI: Yan Kung, PhD, Associate Professor, Chemistry

Research Project: Molecular cloning, overexpression, and purification of various Mevalonate

Kinase homologs.

2014–2016 Teaching Assistant, Bryn Mawr College, Chemistry Department

CHEM B103 & B104: General Chemistry I & II CHEM B211 & B212: Organic Chemistry I & II

Led bi-weekly tutoring sessions, assisted students in lab activities, graded student lab reports,

and held weekly office hours.

05–08/2014 Chemistry Summer Science Research Assistant, Bryn Mawr College

PI: William Malachowski, PhD, Associate Provost & Professor, Chemistry

Research Project: Medicinal synthetic organic chemistry of the Birch-Cope sequence

# **Conference presentations**

2022 Talk: "Computationally efficient demographic inference with supervised machine learning."

Society for Molecular Biology & Evolution (SMBE) Everywhere (Virtual)

Poster: "Inferring demographic history from allele frequency spectra with multi-layer perceptron regressors." *Population, Evolutionary, and Quantitative Genetics Conference*,

Pacific Grove, CA

2021 Poster: "Inferring Demographic History from Allele Frequency Spectra with Supervised

Machine Learning." Probabilistic Modeling in Genomics, Cold Spring Harbor Laboratory

(virtual).

## **Publication**

2020 Mlera, Luwanika, Melissa Moy, Kristen Maness, **Linh N. Tran**, and Felicia D. Goodrum. "The

Role of the Human Cytomegalovirus UL133-UL138 Gene Locus in Latency and Reactivation."

Viruses 12, no. 7 (2020): 714.

### **Awards**

2015 Bryn Mawr College Summer Undergraduate Internship Grant: conduct research on clinical

diagnostic technologies in the contemporary Vietnamese healthcare industry

2014 Bryn Mawr College Summer Undergraduate Research Grant: Chemistry Department 2013 Bryn Mawr College & Nanyang Technological University Summer School Scholarship

#### Service and Outreach

## University of Arizona

2021-current	Data Science Ambassador, University of Arizona Data Science Institute
2019–2020	Biology Head Mentor, Math and Science Summer Program in Vietnam
2019	Volunteer-Immunobiology, Science City at the Tucson Festival of Books

### **Bryn Mawr College**

2015–2016 Treasurer, Chair of Student Finance Committee, Self-Government Association Executive

Board Member (elected)

2014–2015 Dorm president, Rhoads South Dormitory (elected)

2013–2015 Assistant, International Student Services

2013–2014 Tutor, Outreach English Project

2013 Mentor & Leadership Committee, Southeast Asian Leadership Network (SEALNet): Project

Vietnam

#### **Relevant Coursework**

INFO 557 Neural Networks, MCB 547 Big Data in Molecular Biology, BE 534 Biosystems Analytics, MCB 580 Intro to Systems Biology, MCB 553 Functional & Evolutionary Genomics, ECOL 526 Population Genetics, ECOL 519 Intro to Modeling in Biology

## Computational skills

Python, bash, high performance computing, git/Github (@Intran26), R/R studio, LaTeX Certified Software Carpentries Instructor