

# ADRIAN FORSYTHE

## Postdoctoral Researcher

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🔗 AdrianForsythe



## EMPLOYMENT

### Postdoctoral Researcher

#### Uppsala University

📅 Sept 2020 – Ongoing 📍 Uppsala, SWE

Currently, I am a PostDoctoral Researcher in the Guschanski Lab, where my research focuses on both the ancient and modern microbiomes of wild mammals and identifying antimicrobial resistance factors within these communities. The goal of my research is to ultimately contribute to conservation efforts to curb disruptions to microbial ecosystems.

## EDUCATION

### Ph.D. in Microbiology

#### McMaster University

📅 Sept 2016 – Aug 2020 📍 Hamilton, Canada

Thesis title: Population Genetic Investigation of the White-Nose Syndrome Pathogen, *Pseudogymonascus destructans*, in North America

### M.Sc. in Microbiology

#### McMaster University

📅 Sept 2014 – Aug 2016 📍 Hamilton, Canada

### B.Sc. in Biology, Honours

#### Trent University

📅 Sept 2010 – May 2014 📍 Peterborough, Canada

## MOST RECENT PUBLICATIONS

### 📄 Journal Articles

- Forsythe, A., Brealey, J. C., Gadhvi, M., Su, J., & Guschanski, K. (2022). Dynamics and metagenomics of oral disease in scandinavian brown bears (*ursus arctos*). *Nature Communications*, 0(0), 0.
- Forsythe, A., Fontaine, N., Bissonnette, J., Hayashi, B., Insuk, C., Ghosh, S., ... Cheeptham, N. (2022). Microbial isolates with anti-*Pseudogymnoascus destructans* activities from western canadian bat wings. *Scientific Reports*.
- Moraitou, M., Forsythe, A., Fellows Yates, J. A., Brealey, J. C., Warinner, C., & Guschanski, K. (2022). Dental calculus metagenomics suggest that ecology, not host phylogeny, shapes the oral microbiome in closely related species. *eLife*, 0(0), 0.

## ACHIEVEMENTS



### Academic Publishing Record

7 first-author papers, 77 citations, h-index = 5



### Lead organizer for Ontario Ethology, Ecology, and Evolution 2019 conference.

The largest graduate student-organized biology/psychology event in Ontario



### Advising/Consulting

An advisor for the McMaster chapter of the Society of Industrial and Applied Mathematics (SIAM). Overleaf Advisor ([overleaf.com/advisors!members](https://overleaf.com/advisors!members))

## STRENGTHS

Hard-working

Eye for detail

Motivator & Leader

Desktop Linux

Unix

Docker/Singularity

Anaconda

Data Visualization

tidyverse

plotly

Rshiny

snakemake

Nextflow

Web Scraping

ML Applications

Wet and Dry Lab Skills

Hypothesis testing

Statistical Analysis

Microbial genetics

Landscape Genetics

Microbiome

Metabarcoding

Pangenomics

Genome Assembly and Annotation

## PROFICIENCY OF KEY SKILLS

Bash

R

Python



## RELEVANT PROJECTS

### Standards, Precautions, and Advances in Ancient Metagenomics (SPAAM)

#### Academic Community

- Contributed to curating a resource of all published shotgun-sequenced ancient metagenome samples.
- Primarily meant to act as a reference guide to help point researchers toward any relevant public data for comparative analysis.
- Help researchers track growth and development of the field of ancient metagenomics over time.