

# Daniel Rasicci

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## Education

- **Bachelor of Science**, Bioinformatics, Walsh University.
  - Graduated Cum Laude on April 29, 2018
  - GPA: 3.67

## Honors and Awards

- **Deshayes Scholarship Award**, Fall 2014 - 2018
- **Dean's List**, Fall 2014 - Fall 2018
- **Honors Program**, Fall 2014 - Spring 2017
- **Sigma Zeta Science Honors Society**, 2015 - present
- **National Science Merit Award**, United States Achievement Academy, 2012 - 2013
- **National Honor Society**, 2013 - 2014
- **Best Teamwork Award**, The Austen BioInnovation Institute in Akron, Summer 2013

## Publications

1. Daniel Rasicci, Matthew Huntsman, Thomas Freeland. **A Pseudogene Provides Evidence of Evolution of New Genetic Information By Gene Duplication Followed By Frameshift Mutation**. *The Ohio Journal of Science*, Vol. 117(1): 26, 2017.
2. Michelle Seif, Daniel Rasicci, Thomas Freeland, Adam Underwood, Jeremy Prokop. **Homology Modeling of High Mobility Group Box (HMG Box) Proteins LEF-1 and SP100; Work Towards Translational Genomics**. *The Ohio Journal of Science*, Vol. 117(1): 26-27, 2017.
3. Frank R. Fontaine, Stephen Goodall, Jeremy W. Prokop, Christopher B. Howard, Mehdi Moustaqil, Somuah Kumble, Daniel T. Rasicci, Geoffrey W. Osborne, Yann Gambin, Emma Sierecki, Martina L. Jones, Johannes Zuegg, Stephen Mahler & Mathias Francois (2018) **Functional domain analysis of SOX18 transcription factor using a single-chain variable fragment-based approach**, *mAbs*, DOI: [10.1080/19420862.2018.1451288](https://doi.org/10.1080/19420862.2018.1451288)

*Presented research at Experimental Biology 2018 conference and Ohio Academy of Science 2017*

## Research Interests

- Bioinformatics
- Genetics
- Translational Genomics
- Evolutionary Biology
- Statistical Data Analysis
- Computational Biology
- Database Management and Creation

## Skills

- Hard Skills
  - Molecular biology
    - PCR, qPCR, western blot, Qubit and nanodrop quantification, gel electrophoresis, bacterial transformation, transient transfection, restriction digests, cell culture, aseptic techniques.
  - Maintaining mouse colonies
    - Setting up matings
    - Genotyping
    - Euthanization
    - Tail tip and ear punch
    - Dissecting mice embryos
    - Creating MEF cells
  - Bioinformatics Applications
    - BLAST, Clustal Omega, Entrez, Uniprot
  - Computer Programming
    - Experience with Java, HTML, PHP, Python, R, Windows, Linux/Unix
  - Database structures
    - SQL, phpMyAdmin, MySQL Workbench
  - MS Office Suite
  - Mathematics
- Soft Skills
  - Critical Thinking
  - Creativity
  - Teamwork

## Work Experience

*Experience working in teams, multitasking, and working fast and accurately with a deadline.*

- **The Jackson Laboratory**, Bar Harbor, ME 05/28/2019 - present
  - Research assistant I
  - My responsibilities include maintaining multiple colonies of mice to study the Hedgehog signaling pathway during embryonic development. Studying Gli transcription factors at the DNA, RNA, and protein levels using a variety of molecular techniques.
- **Aerotek**, Akron, OH 06/25/2018 - 12/01/2018
  - Contract Worker at Gojo Industries
  - Quality Assurance Technician - Temp
  - My responsibilities included reviewing orders of produced goods for all quality criteria to release the product for shipping.
- **HudsonAlpha Institute for Biotechnology**, Huntsville, AL 07/2017
  - Bioinformatics intern
  - My responsibilities included compiling evolution, expression, and variant data from various databases of the SOX family of transcription factors and analyzing the data using statistical methods.

- **Hot Head Burritos**, Green, OH *06/08/2016 - 11/12/2016*
  - Crew member
  - My responsibilities included building burritos at a fast pace, customer service, working a cash register, cleaning and dishwashing.
  
- **Sodexo Catering**, North Canton, OH *08/2014 - 05/2015*
  - Banquet/Event Server
  - My responsibilities included setting up for events such as weddings and other catered events, serving food and drinks to the guests, and washing the dishes during the event and at the end of the night.
  
- **Raintree Country Club**, Green, OH *06/2013 - 08/2014*
  - Banquet/Event Server
  - My responsibilities included setting up for events such as weddings and other catered events, serving food and drinks to the guests, and washing the dishes during the event and at the end of the night.
  
- **Ninni's Bakery**, Akron OH *12/15/12 to 12/29/12*
  - My responsibilities included running the cash register, cleaning, dishwashing, and preparing cookie trays.

## References

- Dr. Kevin Peterson
  - Associate Research Scientist
  - The Jackson Laboratory
  - (207) 288-6057
  - [Kevin.Peterson@jax.org](mailto:Kevin.Peterson@jax.org)
  
- Dr. Thomas Freeland
  - Professor of Biology
  - Walsh University
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- Dr. Jeremy Prokop
  - Assistant Professor
  - Michigan State University
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- Dr. Adam Underwood
  - Associate Professor of Biology
  - Walsh University
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