



# JENNIFER WALKER

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## OBJECTIVE

I am looking to pivot my career from a molecular biologist one to a more bioinformatics/computational biologist position.

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## EDUCATION AND EXPERIENCE:

08/2016 – present: PhD in Molecular, Cellular, and Developmental Biology (focus on Computational Biology)

- Learned bash, Python, Docker/Singularity, and made pipelines
- Saw product from beginning to end: Aquamarine\_DL, MutantHuntWGS
- QA tested software made in my group: Scoria\_DL, Gypsum\_DL, Dimorphite\_DL

*(More information about previous positions available on my CV or by request)*

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## HACKATHONS:

NCBI Genomics Hackathon January 2020: <https://github.com/NCBI-Codeathons/NI>

- Team Member: Neoepitopes.
- Contribution: Writing documentation and manuscript, coordinating others with various skillsets.

SteelHacks 2021: Learn2Earn <https://devpost.com/software/learn2earn>

Team Lead/Product Manager

- Winner of the Video Game Category
- Learn2Earn – a mobile app to allow users to combine funds to increase their spending power and purchase stocks in a game-like way
- UI/UX Front-End Developer: Python and Glide

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## SKILLS:

- Quick to learn new programming languages/techniques
- Combining programs into pipelines
- R, Bash, Python, Docker, ML (Scikitlearn)
- Interfacing between different groups of scientists



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## RECENT PUBLICATIONS:

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- Mitchell Ellison (1), **Jennifer Walker (1)**, Patrick Ropp, Jacob Durrant, and Karen Arndt. MutantHuntWGS: A Pipeline for Identifying *Saccharomyces cerevisiae* Mutations. *G3* Accepted (2020).
- Melissa S. Plakke, **Jennifer L. Walker**, Jeffrey B. Lombardo, Breanna J. Goetz, Gina N. Pacella, Jacob D. Durrant, Nathan L. Clark, and Nathan I. Morehouse. Characterization of Female Reproductive Proteases in a Butterfly from Functional and Evolutionary Perspectives. *Physiological and Biochemical Zoology* (2019) 92:6, 579-590

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## RELEVANT COURSEWORK

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- Graduate-level Python course:
- Learned about Python packages: Scikitlearn, biopython, pandas, pySB