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.

# 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)*

# 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

# skills:

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

# recent publications:

* 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

# relevant coursework

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