

# Virág Varga

Lund, Sweden

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## EDUCATION

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**Lund University, Department of Biology**, Lund, Sweden 2020-present  
Master of Sciences in Bioinformatics

**University of Cincinnati, College of Arts and Sciences**, Cincinnati, OH, USA 2014-2019  
Bachelor of Science in Biological Sciences | Bachelor of Arts in German Studies, Anthropology,  
Archaeology (Social Complexity)  
GPA 3.762/4.0

## TECHNICAL EXPERIENCE

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R, Bash/Shell, Python, CLC Genomics Workbench, Galaxy Web Platform, Microsoft Office, Genome  
Browser Web Tools

## PROJECTS

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**Screwworm Genome Project** August 2018 – May 2019

*Insect Physiology Lab, University of Cincinnati* | Cincinnati, OH, USA

- Utilized CLC Genomics Workbench and the Galaxy Web Platform to complete an RNASeq analysis to highlight stage-specific gene expression differences in the New World Screwworm
- Constructed a Gene Ontology (GO) analysis using web tools and visualized differentially expressed genes in heatmaps constructed with R in RStudio
- Presented the results of this research at the North Central Branch of the Entomological Society of America's Annual Meeting on March 19<sup>th</sup>, 2019 (Poster Title: "Transcriptomic Analysis Reveals Stage-Specific Gene Expression in New World Screwworm *Cochliomyia hominivorax*")

**Tick Genome Analysis** January 2018 – April 2018

*Insect Physiology Lab, University of Cincinnati* | Cincinnati, OH, USA

- Utilized Bash/Shell and the Galaxy Web Platform to complete an RNASeq analysis of *Ixodes scapularis* tick genes
- Analyzed gene expression data with BLAST against the NCBI Database

**Bronze Age Körös Off-Tell Archaeology Project** June 2015 – July 2019

*Quinnipiac University* | Békés, Hungary

- Excavated at the Bronze Age cemetery at Békés, Hungary over the course of two field seasons, with a lab season and an off-year in between

- Analyzed the bronze artifacts recovered from the site in terms of spatial distribution, grave associations, and historical context; these analyses involved the creation of maps in QGIS, statistical analyses in Microsoft Excel, and an intensive literature review
- Presented two different stages of this research at the Society for American Archaeology's Annual Meetings in 2016 (Poster Title: "A preliminary analysis of the metal finds from Békés 103") and 2017 (Poster Title: "Metals in Transition: A Visual Comparison of Copper and Bronze Age Trade in the Eastern Carpathian Basin")

## EMPLOYMENT EXPERIENCE

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### **Supplemental Instruction Leader & Mentor**

August 2015 – May 2019

*Department of the Learning Commons, University of Cincinnati | Cincinnati, OH, USA*

- Designed review content and facilitated review sessions for college students in General Biology and General Chemistry to aid them in mastering course content and gain valuable study skills to ensure their continuing success
- Designed and facilitated training for new and returning employees, mentoring them in order to ensure they possessed the skills to facilitate group learning and help their students master course content

### **(Head) Resident Advisor**

August 2016 – April 2017; August 2018 – May 2019

*Department of Resident Education and Development, University of Cincinnati | Cincinnati, OH, USA*

- Facilitated the transition of first-year college students into the University setting
- Created programs to educate young adults on matters related to learning, leadership, community, and inclusion
- As Head Resident Advisor (August 2018 – May 2019), scheduled shifts and organized trainings for Resident Advisors under my purview

## ADDITIONAL SKILLS

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**Languages:** English (fluent), Hungarian (fluent), German (working proficiency), Spanish (reading proficiency)

**Knowledge of Bioinformatics Web Tools:** DataMonkey, g:Profiler, Panther, miRDB, etc.

**Organization & Planning:** Through my work as a Supplemental Instructor and Resident Advisor, I have become very efficient at planning and scheduling events, facilitating trainings, presenting materials to large groups of individuals with differing levels of prior understanding of the topics, and time management

**Navigating Multiple Stakeholders:** Through my training in anthropology and archaeology, I have learned how to navigate situations in which there are multiple stakeholders, and not all stakeholders necessarily desire the same outcomes

**Customer Service:** All of my work experience has been customer-oriented, so I have experience with the importance of putting everything else aside during the shift, in order to provide the customer with the best experience possible.