Joyce Yiyi Wang

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Education

The University of Texas at Austin — Aug. 2018 - May 2021

B.S. Biology, Computational Biology
Certificate in Elements of Computing

Awards

Undergraduate Research Fellowship, The University of Texas at Austin — Oct. 2020

$1,000

TIDES Advanced Summer Research Fellowship, The University of Texas at Austin — Apr. 2020

$4,000

Charlotte Mangum Student Support Program, The Society for Integrative & Comparative Biology — Oct. 2019

$115

Research Experience

Undergraduate Research Assistant, The Cenik Lab, The University of Texas at Austin — May 2020 - present

Department of Molecular Biosciences
Advisor: Dr. Can Cenik

- Investigated the changes in gene expression as a result of genetic compensation response in humans and mice
- Discovered genes displaying genetic compensation response

Undergraduate Research Assistant, The Hofmann Lab, The University of Texas at Austin — June 2019 - present

Department of Integrative Biology
Advisors: Dr. Hans Hofmann & Dr. Rebecca Young

- Demonstrated the distinct transcriptomic profiles of three brain regions for male *Astatotilapia burtoni* during different time points of social ascension
- Uncovered genes and gene co-expression modules that are associated with behavioral and physiological measures for male *A. burtoni* during social ascension

Undergraduate Research Assistant, Freshman Research Initiative, The University of Texas at Austin — Jan. 2019 - Dec. 2019

Advisors: Ms. Dhivya Arasappan & Dr. Rebecca Young

- Discovered genes and pathways associated with familial and sporadic amyotrophic lateral sclerosis
- Uncovered biological pathways related to different time points during the social ascension of male *Astatotilapia burtoni*

Publications

Manuscripts in Preparation

1. **Wang, J. Y.,** Paggeot, L. X., Friesen, C. N., Solomon-Lane, T. K., Hofmann, H. A., Young, R. L. "The Neural Transcriptomic Basis of Attaining Social Dominance Status."

Presentations

Poster Presentations

1. **Wang, J. Y.**, Paggeot, L. X., Friesen, C. N., Solomon-Lane, T. K., Hofmann, H. A., Young, R. L. "The Neural Transcriptomic Basis of Attaining Social Dominance Status." *The Society for Integrative & Comparative Biology Annual Meeting 2021*.
2. **Wang, J. Y.**, Liu, Y., Paggeot, L. X., Friesen, C. N., Solomon-Lane, T. K., Hofmann, H. A., Young, R. L. "Neural Transcriptomic Responses to Social Opportunity." *Undergraduate Research Forum, The University of Texas at Austin, 2020*.

3. **Wang, J. Y.**, Paggeot, L. X., Friesen, C. N., Solomon-Lane, T. K., Hofmann, H. A., Young, R. L. "Neural Transcriptomic Responses to Social Opportunity." *The Society for Integrative & Comparative Biology Annual Meeting 2020*.

Memberships

The Society for Integrative & Comparative Biology — **Oct. 2019 - present**

Freshman Research Initiative, The University of Texas at Austin — **Aug. 2018 - Dec. 2019**

Big Data in Biology

Other Qualifications

Biotechnology Program, Austin Community College

Studied Quality Control and Quality Assurance

Languages: English, Chinese, and Japanese

Programming Languages: R, Python, and MATLAB

References

Dr. Hans Hofmann,
Department of Integrative Biology,
The University of Texas at Austin
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Dr. Rebecca Young,
Department of Integrative Biology,
The University of Texas at Austin
youngrl@utexas.edu

Dr. Can Cenik,
Department of Molecular Biosciences,
The University of Texas at Austin
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