

Julia Z. Zheng

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Education

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|--------------|---|
| 2019-current | PhD (qualified status) in Computer Science & Engineering and Ecology, Evolution, & Behavior
Michigan State University, MI, United States of America |
| May 2019 | BS in Computer Science (With Great Distinction)
University of Windsor, Windsor, ON, Canada |
| Feb 2018 | BS in Microbiology and Immunology
McGill University, Montreal, QC, Canada |

Skills and Strengths

Programming languages: Python, R, C, C++, Java, MASM, HTML, PHP, SQL
Documentation and Editing Software: Microsoft Suite, Adobe Photoshop, EndNote

Publications

I. Peer-reviewed journal papers

1. Wang, W., Hejasebazzi, A., **Zheng, J.**, & Liu, K. (in press). Build a better bootstrap and the RAWR shall beat a random path to your door: phylogenetic support estimation revisited. *Bioinformatics*.
2. Hamzeh, O., Alkhateeb, A., **Zheng, J.**, Kandalam, S., & Rueda, L. (2020). Prediction of tumor location in prostate cancer tissue using a machine learning system on gene expression data. *BMC bioinformatics*, 21(2), 1-10.
3. Hamzeh, O., Alkhateeb, A., **Zheng, J. Z.**, Kandalam, S., Leung, C., Atikukke, G., Cavallo-Medved, D., Palanisamy, N., & Rueda, L. (2019). A hierarchical machine learning model to discover Gleason grade-specific biomarkers in prostate cancer. *Diagnostics*, 9(4), 219.
4. **Zheng, J. Z.**, Li, Y., Lin, T., Estrada, A., Lu, X., and Feng, C. (2017). Sample size calculations for comparing groups with continuous outcomes. *Shanghai Arch Psychiatry*, 29(4): 250-256.
5. Xu, M., Fralick, D., **Zheng, J. Z.**, Wang, B., Tu, X. M., and Feng, C. (2017). The differences and similarities between two-sample t-test and paired t-test. *Shanghai Arch Psychiatry*, 29(3): 184-188.
6. Wang, H., Peng, J., Wang, B., Lu, X., **Zheng, J. Z.**, Wang, K., Tu, X. M., and Feng, C. (2017). Inconsistency between univariate and multiple logistic regressions. *Shanghai Arch Psychiatry*, 29(2): 124-128.
7. Wang, H., Peng, J., **Zheng, J. Z.**, Wang, B., Lu, X., Chen, C., Tu, X. M., and Feng, C. (2017). Win ratio - An intuitive and easy-to-Interpret composite outcome in medical studies. *Shanghai Arch Psychiatry*, 29(1): 55-60.
8. Feng, G., Peng, J., Tu, D., **Zheng, J. Z.**, and Feng, C. (2016). Two paradoxes in linear regression analysis. *Shanghai Arch Psychiatry*, 28(6): 356-360.
9. Wang, H., Peng, J., **Zheng, J. Z.**, Wang, B., Tu, J. X., and Feng, C. (2016). Does more data mean higher efficiency? An experience from pre- and post-treatment study with missing data. *Shanghai Arch Psychiatry*, 28(4): 235-240.

Research and Work Experience

- Aug 2019-current **Research Assistant** to Dr. K. Liu
Department of Computer Science and Engineering
Michigan State University
- Apr-Aug 2019 **Software Engineer Intern**
RetiVue, LLC
- May 2018-Apr 2019 **Research Assistant** to Dr. L. Rueda
School of Computer Science
University of Windsor
- May 2017-Apr 2019 **IT Student Consultant**
Leddy Library, University of Windsor
- Jan-Sep 2018 **Research Assistant** to Ms. G. Liu and Prof. L. Salfi
Faculty of Engineering and Leddy Library
University of Windsor
- May 2017-Jan 2018 **Research Assistant** to Ms. C. Luo
Leddy Library Academic Data Centre
University of Windsor
- Jun 2016-Sep 2017 **Research Assistant** to Dr. C. Feng
Department of Biostatistics and Computational Biology
University of Rochester
- Jun-Oct 2015 **Quality Control Analyst Intern**
Pharmascience Inc., Royalmount HQ (Montreal, QC)

Grants, Fellowships and Awards

- 2019 **Summer Fellowship in Ecology, Evolution, and Behavior**
Michigan State University
- 2019-2024 **BEACON Science and Technology Center Top Up Fellowship**
Michigan State University
- 05/2019 **Student Consultant Outstanding Service Award**
University of Windsor
- 2018-2019 **President's Honour Roll and Dean's Honour Roll**
University of Windsor

Volunteering & Outreach

- 2020-current **Mentor** at Girls Who Code, MSU Women in Engineering
- 2016-current **Copy Editor** for the *International Journal of Librarianship*
- 2014-2017 **Volunteer** at CPE McGill Childcare Centre

Professional Affiliation

- 2020-current **Member**, Association for Computing Machinery
- 2018-current **Member**, International Society for Computational Biology