

Julia Z. Zheng

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Education

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
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	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

May-2021	Reviewer for ACM Conference on Bioinformatics, Computational Biology, and Health Informatics (ACM BCB)
May-Aug 2021	Mentor to two undergraduate students Distributed Research Experiences for Undergraduates (DREU) Computing Research Association (CRA-WP)
2020-current	Mentor at Girls Who Code, MSU Women in Engineering
2016-current	Copy Editor for the <i>International Journal of Librarianship</i>
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