

Bradley Howlett

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 [LinkedIn](#)

 [Portfolio](#)

 [Github](#)

Summary

Researcher and writer with 5+ years of relevant experience in genomic laboratory bench work, freelance content writing, life science manuscript/grant writing, large-scale literature review, and data acquisition and analysis. Demonstrates technical efficiency and accuracy in balancing multiple projects to meet goals set by Institution and Publisher. Areas of expertise:

- Science Education
- Technical Writing
- Scientific Journalism
- Literature review/Meta-analysis
- Genomics/Proteomics
- Web development
- STEM
- Team Collaboration

Technical Skills

Programming: Command Line, Git/Github, Bash, XML, Markdown, HTML5, CSS3, and Javascript.

Biochemistry: DNA and RNA extraction from human whole blood, muscle/adipose tissue, and rat brain tissue; qPCR, nested PCR, RT-PCR; SDS-PAGE, Western blots, ELISA; Bisulfite conversion, sequencing, and pyrosequencing

Instruments and Automation: Opentron, Nanodrop, Qubit Fluorometer, Qiacube, Qiaxcel, Roche Lightcycler 480ii, Pyromark Q48 pyrosequencer, and solar electrical systems.

Current Work



Writer (*remote*)

Oct. 2021
- Present

ContentWriters

Freelance content writer and editor for the Tech industry, as well as the Medical and Health Sciences industry. Comfortable working cooperatively with team members to meet tight deadlines for multiple projects at a time, and with full autonomy.

- Writing samples available upon request:
 - Codecademy (Skillsoft)
 - Udemy
 - Questex/Merit Solutions



Writer (*remote*)

Jun. 2018
- Present

Straive (formerly SPi Global)

Freelance accessibility writer/editor for K-12 to college-level STEM textbooks. Detail-oriented service provider developing content for leading publishers in science education, such as Pearson and McGraw Hill.

- Writing samples available upon request:
 - McKnight's Physical Geography: A Landscape Appreciation, 13e
 - Chemistry: The Central Science, 14e
 - University Physics With Modern Physics, 12e
 - Campbell Biology in Focus, 3e



Research Assistant/Laboratory Manager/Clinical Researcher

Aug. 2017
- Jul. 2021

Wayne State University, Eugene Applebaum College of Pharmacy and Health Sciences

An involved member of Dr. Burghardt's research team investigating the epigenetic and/or protein-based dysregulations caused by atypical antipsychotics. Such findings could lead to the reduction of medication side effects and ultimately help prevent cardiovascular mortality.

- Contributed to all phases of research: grant writing, experimental design, clinical recruitment (n=75+), regulatory document preparation, data collection, genetic bench work, biotech manual and automated processes, results acquisition, data analytics and validation, scientific manuscript authorship, and poster presentation at conferences.
- Performed database screening and data acquisition for literature reviews, systematic reviews, and meta-analyses.
- Contributed to clinical recruitment and completion of over 100+ clinical study visits for Dr. Zhengping Yi's research team.
- First author of a textbook chapter on DNA methylation in Bipolar Disorder - published January 21, 2022.
- CPNP 2019 Original Research Awardees and Finalists for Best Poster Award.

Certifications

- Codecademy/LinkedIn Learning
 - [Command Line](#)
 - [Git & GitHub](#)
 - [Bash Scripting](#)
 - [HTML](#)
 - Full-stack Engineer (*currently enrolled*)

Education



Grand Valley State University

Bachelors of Science Degree; double major

Aug. 2014 - Jun.
2018

- Cell and Molecular Biology
- Behavioral Neuroscience

Publications and Poster Abstracts ([link](#))

1. Atypical Antipsychotics and the Human Skeletal Muscle Lipidome. Kyle J Burghardt, Kristen M Ward, Elani J Sanders, Bradley H Howlett, Berhane Seyoum, Zhengping Yi. 2018 - Metabolites, MDPI. 8(4):64.
2. College of Psychiatric and Neurological Pharmacists. 2019 - Annual Meeting Poster Abstracts. Mental Health Clinician, CPNP. 9(3):141-257.
3. Michigan Diabetes Research Center Annual Diabetes Symposium. 2019 - MDRC symposium.
4. Skeletal muscle DNA Methylation Modifications and Psychopharmacologic Treatment in Bipolar Disorder. Kyle J Burghardt, Bradley H Howlett, Elani Sanders, Sabrina E Dass, Zaher Msallaty, Abdualлах Mallisho, Berhane Seyoum, Zhengping Yi. 2019 - European Neuropsychopharmacology, Elsevier. 29(12):1365-1373.
5. Three Commonly Utilized Scholarly Databases and a Social Network Site Provide Different, But Related, Metrics of Pharmacy Faculty Publication. Paul R Burghardt Kyle J Burghardt, Bradley H Howlett, Audrey S Khoury, Stephanie M Fern. 2020 - MDPI. 8(18).
6. A Bibliometric Analysis of the Top 50 NIH-Funded Colleges of Pharmacy Using Two Databases. Kyle J Burghardt, Bradley H Howlett, Stephanie M Fern, Paul R Burghardt. 2020 -Research in Social and Administrative Pharmacy, Elsevier. 16(7):941-948.
7. Epigenetic Responses to Acute Resistance Exercise in Trained vs. Sedentary Men. James R Bagley, Kyle J Burghardt, Ryan McManus, Bradley Howlett, Pablo B Costa, Jared W Coburn, Jose A Arevalo, Moh H Malek, Andrew J Galpin. 2020 - The Journal of Strength and Conditioning Research, LWW. 34(6):1574-1580.
8. Olanzapine Increases Skeletal Muscle DNA-5hydroxymethylation in Healthy Volunteers. Kyle Burghardt, Zhengping Yi, Berhane Seyoum, Bradley Howlett. 2020. ACCP VIRTUAL Annual Meeting - American College of Clinical Pharmacy.
9. Bibliometric Data Based on the Pharm. D. and Ph. D. Degree in United States Research-intensive Colleges of Pharmacy. Kyle J Burghardt, Bradley H Howlett, Audrey S Khoury, Stephanie M Fern, Paul R Burghardt. 2021 - International Journal of Pharmacy Practice. 29(1), 78-83.
10. Personal genotyping and student outcomes in genetic and pharmacogenetic teaching: a systematic review and meta-analysis. KJ Burghardt, KM Ward, BH Howlett, PR Burghardt. 2021 - Pharmacogenomics. 22(7), 433.
11. Biomarkers in Bipolar Disorder: DNA Methylation in Bipolar Disorder. Bradley H. Howlett, Marissa A. Kassa, Kyle J. Burghardt. 2022 - Elsevier. Ch. 15.
12. Profiling the Skeletal Muscle Proteome in Patients on Atypical Antipsychotics and Mood Stabilizers. K.J. Burghardt, G. Calme, M. Caruso, B.H. Howlett, E. Sanders, Z.

Msallaty, A. Mallisho, B. Seyoum, Y.A. Qi, X. Zhang, Yi Z. 2022 - MDPI Brain Sciences. 12 (259).