

William C. Kaufman

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EXPERIENCE

Eurofins Professional Scientific Services

Scientist 1

Gaithersburg, MD

August 2022 – Present

- Characterized monoclonal antibodies through use of capillary isoelectric focusing, size exclusion chromatography, ion exchange chromatography, and peptide mapping mass spectrometry.
- Performed forced degradation experiments to determine quality attributes for commercial monitoring.
- Developed new methods for fractionation with cation exchange chromatography on AKTA FPLC for relatively hydrophobic and self-associating antibodies.
- Created data set for machine learning predictions of cIEF results.
- Authored technical reports detailing experimental conclusions.
- Processed data in Waters Empower, Agilent OpenLab, Protein Metrics Byos, and GraphPad Prism.
- Tested samples with Protein Simple iCE3 and Maurice instruments, and Agilent HPLCs (SEC).
- Led the onboarding committee to welcome new hires into our department.

Johns Hopkins Medicine

Division of Allergy and Clinical Immunology

Dr. Peisong Gao Laboratory

Research Assistant

Baltimore, MD

June 2021 – May 2022

- Created a mouse model for the interactions of the complement protein C3 with cockroach allergen.
- Introduced biotin pulldowns, and RT-PCR of miRNA-mRNA interactions for validation of in silico results.
- Harvested mouse tissues for quantification of inflammatory markers and modified RNA expression.
- Cultured human epithelial cells to validate mouse results in human tissues.
- Performed statistical analysis and created figures in GraphPad Prism.
- Published a peer-reviewed paper in Frontiers in Immunology.
 - <https://doi.org/10.3389/fimmu.2021.767508>

EDUCATION

Johns Hopkins University Krieger School of Arts and Sciences

Bachelor of Science in Molecular and Cellular Biology

Baltimore, MD

December 2021

- **Dean's List** - Fall 2019, Fall 2020, Spring 2021
- **GPA:** 3.77 Graduated with General Honors.
- **Relevant Coursework:** Biochemistry, Cell Biology, Genetics, Protein Engineer, and Biochemistry Lab, Calculus I, II & III, Cancer Biology, Developmental Genetics Lab, Cellular Biology Lab

SKILLS

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- Technical: Waters Empower, Agilent OpenLab, Protein Metrics BYOS, DLIMS, cIEF, SEC, IEC, Mass Spectrometry, Peptide Mapping, Research, Molecular & Cellular Biology, Statistics, Leadership, Communication, Biochemistry, Molecular Genetics, Protein Engineering, Analytical Biochemistry, Microsoft Office, Adobe Suite, Research Animal Care and Use, GraphPad Prism, Zoom.
 - Languages: Native English Speaker, Intermediate Spanish.

PUBLICATIONS

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- Epithelial Aryl Hydrocarbon Receptor Protects from Mucus Production by Inhibiting ROS-Triggered NLRP3 Inflammasome in Asthma. Link: <https://doi.org/10.3389/fimmu.2021.767508>