

Blake Langenbach

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EDUCATION

Master of Science in Public Health, Global Environmental Health Science, Industrial Hygiene 2019–2021
Tulane University School of Public Health & Tropical Medicine GPA: 3.87 New Orleans, LA

Bachelor of Science in Neuroscience (BS) 2015–2019
Tulane University School of Science & Engineering New Orleans, LA

Bachelor of Science in Public Health (BSPH) 2015–2019
Tulane University School of Public Health & Tropical Medicine New Orleans, LA

University of Cape Town, South Africa Spring 2018

ACADEMIC AWARDS, SCHOLARSHIPS, & GRANTS

- The Frank W. MacDonald Environmental Health Sciences Outstanding Student Award (May 2021)
- Board of Certified Safety Professionals Foundation Scholarship (November 2019)
- NIOSH Training Program (Fall 2019)
- Marian Gaynor Yanamura Educational Fund Inc. Scholarship (2015–2019)
- Tulane Founders Scholarship (2015–2019)
- Newcomb– Tulane College Grant (March 2017)
- Taylor Grant (May 2017)
- Ann and John Rossi Study Abroad Fund (October 2017)
- Office of Study Abroad Scholarship (October 2017)
- CIEE: GAIN Grant (November 2017)
- Dean’s List (Fall 2017)

FELLOWSHIPS

Neurotoxic Chemicals Fellowship at US Environmental Protection Agency (EPA) Jan. 2021–March 2022
Oak Ridge Institute of Science and Education (ORISE) Master’s Level (GS-09) Durham, NC

- Developed rapid, quantitative *in vitro* screening assays for select neurotoxicants to identify genomic and proteomic foundations for developmental neurotoxicity endpoints and reactive oxygen species
- Progressed molecular biology skills through cortical cell culturing, assay development, analytical chemistry, and interpreting toxicology and epidemiology data

NIOSH Industrial Hygiene Training Fellowship June 2019–May 2021
National Institute for Occupational Safety & Health (NIOSH) New Orleans, LA

- Selected for a traineeship in Tulane University’s Industrial Hygiene Program, awarded stipend and tuition support
- Maintained trainee appointment by coursework, research activities, and grade point average

PUBLICATIONS & ACKNOWLEDGMENTS

- Langenbach, B.; Wilson, M. Per- and Polyfluoroalkyl Substances (PFAS): Significance and Considerations within the Regulatory Framework of the USA. *Int. J. Environ. Res. Public Health* 2021, 18, 11142.
<https://doi.org/10.3390/ijerph182111142>
 - Featured in February 2022 issue of *NIOSH Research Rounds* (RR)
- Kodavanti, P. R. S., Stoker, T.E., Fenton, S.E., and Curras-Collazo, M: Brominated Flame Retardants. In: R.C. Gupta, editor, “Reproductive and Developmental Toxicology”, 3rd edition, Elsevier, San Diego, CA; pp. (2022).

- Kodavanti, P. R. S., Valdez, M.C., Yang, J.H., Curras-Collazo, M., and Loganathan, B.: Polychlorinated Biphenyls, Polybrominated biphenyls, Polychlorinated dibenzo-*p*-dioxins, and Polychlorinated dibenzofurans. In: R.C. Gupta, editor, "Reproductive and Developmental Toxicology", 3rd edition, Elsevier, San Diego, CA; pp. (2022).
- Cooksey E.M., Singh G., Scott L.C., Aw T.G. (2019) "Detection of coliphages and human adenoviruses in a subtropical estuarine lake" *Science of the Total Environment*. 649: 1514-1521

RESEARCH EXPERIENCE

Clinical Research Assistant

June 2019–February 2020

Tulane University Clinical Translational Unit

New Orleans, LA

- Directly assisted with various clinical trials through subject recruitment, administrative work, laboratory processing, and engaging with vulnerable patients, specifically minority and homeless populations
- Progressed biospecimen skills through patients' blood and urine collection, handling, and centrifugal processing

Water Quality Research Assistant

February–December 2017

Tulane University School of Public Health & Tropical Medicine

New Orleans, LA

- Assisted Dr. Tiong Gim Aw by assessing the detection, presence, and analysis of waterborne pathogens, *Legionella*, and viral species in diverse water samples taken from Lake Pontchartrain
- Expanded various laboratory skills in water sampling, ultrafiltration processing, DNA Extraction, autoclaving, and qPCR

Ecology Research Assistant

October 2016–May 2017

Tulane University School of Science & Engineering

New Orleans, LA

- Assisted Dr. Michael Blum through the collection, germination, and analysis of salinity and atmospheric carbon dioxide on coastal marsh plant *Schoenoplectus americanus* and its effects on soil accumulation and carbon cycling
- Enhanced microscope skills with seed abstraction and learning germination techniques

PROFESSIONAL EXPERIENCE

Associate Industrial Hygienist

July 2022–present

Paustenbach & Associates

Boulder, CO

- Offering industrial hygiene, occupational health, and environmental toxicology consulting for an array of clients
- Conducting literature reviews, exposure assessments, risk characterization, and litigation support for a variety of equipment and compounds, including respirators, asbestos, nicotine, and radionuclides

Industrial Hygienist at Rocky Mountain Regional Veteran Affairs Hospital

March 2022–July 2022

United States Department of Veteran Affairs (VA)

Master's Level (GS-11)

Aurora, CO

- Ensuring the workplace safety and maintaining occupational health of employees through: respirator fit testing, safety data sheets, hazardous chemicals and materials, and water sampling of cooling towers
- Responding to industrial hygiene issues across the hospital: air flow and pressure issues, ventilation, personal protective equipment gear, and toxic chemical inventory and waste

NEHA-STEP Internship

December 2020–February 2021

National Environmental Health Association (NEHA)

New Orleans, LA

- Formulated an online community for Students and Emerging Professionals (STEP) focused in environmental health to promote engagement, resources, and discussion amongst peers
- Contributed to the development of NEHA's Mentorship program with STEP

Graduate Teaching Assistant

January 2020–May 2020

Tulane University School of Public Health & Tropical Medicine

New Orleans, LA

- Enhancing the Foundations of Environmental Health undergraduate course by assisting students' understanding of public and environmental health concepts through supplemental scientific articles and tutoring
- Assisting Dr. Lorelei Cropley through administrative work, handling materials, and grading coursework

Musician – Drummer / Percussionist

October 2019–present

Kota Dosa

New Orleans, LA

- Giggling musician able to adapt and play a variety of percussive styles with several live performances
- Live shows in New Orleans: Apple Barrel, Poor Boys
- Live shows in New York: Bowery Electric, Ferns, The Broadway

Agricultural Apprenticeship

May–August 2017

Grow Dat Youth Farm

New Orleans, LA

- Advanced sustainable, organic urban agriculture skills: farm sustainability, soil building and mulching, composting, cover crop methods, harvest techniques, post-harvest handling, direct seeding and propagation, and greenhouse maintenance
- Led youth groups with task demonstrations and farm management while promoting cooperation, trust, and inclusiveness

Service Member

24 March–2 April 2017

Tulane University Global Brigades Chapter

Matagalpa, Nicaragua

- Participated in water, medical, dental, and public health brigades: helping a community dig trenches for water pipes; shadowing doctors and pharmacists and helping diagnose and treat 1203 patients in El Hular; assisted dentists in treating 25+ patients; constructing sanitation stations and concrete floor additions

LEADERSHIP & ORGANIZATIONS

- **Delta Omega National Honorary Society in Public Health, Eta Chapter:** Member *May 2021–present*
- **Global Scholars Program:** Member *August 2019–May 2021*
- **Zeta Beta Tau Fraternity:** Member & Risk Management Chair *February 2016–May 2019*
- **University of Cape Town: Mountain & Ski Club, Surf Club, Wine Society:** Member *Spring 2018*
- **Tower and Crescent:** Member *August 2017–December 2018*
- **Tulane University Neuroscience Association:** Member *September 2015–August 2018*
- **Tulane University Pre-Med Society:** Member *September 2015–August 2018*
- **Mobile Ichihara Sister City Association:** Student Ambassador to Ichihara, Japan *July 2012–July 2013*

TECHNICAL SKILLS & CERTIFICATIONS

- **Laboratory Skills:** Cortical Cell Culturing & Brain Isolation (Rat) • Assay Development • ROS/MTS/LDH/ELISA Assays • Immunocytochemistry • RNA Isolation • SpectraMax iD5 & MiniMax Expertise • Aseptic and Sterilization Techniques • Neurotoxicant Selectivity & Handling • Biospecimen Processing
- **Fieldwork Skills:** Water Quality Sampling and Testing • Ultrafiltration Methods • Soil Sampling
- **Trainings & Certifications:** Rats 101 • IATA/DOT • HIPAA • BLS • CPR
- **Language Skills:** Spanish (conversational)
- **Interests:** Geology • Rock Climbing • Biking • Hiking • Drumming