

Sarah Davis

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EDUCATION:

University College London, London, UK

Master of Science

Program: Neuroscience

Award: Merit

Indiana University, Bloomington

Bachelor of Science

Major: Human Biology with concentration in Human Health and Disease

Minors: Psychology, Spanish, and Dance

GPA: 3.32

RESEARCH EXPERIENCE:

Indiana University Dept. of Biology- Bloomington, IN

2017- Present

Research Associate- Dr. Laura Hurley

- Plan, perform, analyze, and write up experiments including:
 - Postweaning Isolation Alters the Responses of Auditory Neurons to Serotonergic Modulation
 - <https://doi.org/10.1093/icb/icab051>
 - Effects of social experience on serotonergic cell activation in regions of the Dorsal Raphe projecting to the Inferior Colliculus- in progress
- Assist graduate students with projects:
 - Social Experience Interacts with Serotonin to Affect Functional Connectivity in the Social Behavior Network following Playback of Social Vocalizations in Mice
 - <https://dx.doi.org/10.1523/JNEURO.0247-20.2021>
- Familiarize myself with all aspects of laboratory functions including:
 - Mouse procedures, surgery, behavioral experiments, perfusion, immunohistochemistry, and general bench work.
 - Build carbon fiber electrodes and troubleshoot voltammetry rig
 - Train lab members and supervise undergraduate researchers

IUPUI Department of Cellular and Integrative Physiology- Indianapolis, IN

2016-2017

Laboratory Technician- Dr. Michael Sturek, Dr. Mouhamad Alloosh, and James Byrd

- Worked with a range of faculty, collaborators, students, and lab techs in a multifaceted lab focusing on translational cardiovascular disease and diabetes research in swine
- Trained rotating students and assisted in planning individual projects
- Performed experiments, collected data, analyzed data, and presented results
- Assisted with surgeries, procedures, and tissue collection

Royal National Orthopedic Hospital, Stanmore, UK 2014-2015

MSc Laboratory Placement- Dr. Anne Vanhoostenberghe and Dr. Henry Lancashire

- Worked independently and as part of an interdisciplinary team to plan, implement, troubleshoot, and complete project goals
- Fabricated thick-film micro electrodes and performed biocompatibility tests
- MSC PROJECT: In vitro assessment of the cytotoxicity of platinum and ceramic thick-film micro-electrode arrays for use as neural implant devices
 - http://www.frontiersin.org/10.3389/conf.FBIOE.2016.01.01804/event_abstract

TEACHING ROLES:

Ivy Tech- Bloomington, IN 2018- 2020

Adjunct Professor- Intro to Molecular and Cellular Biology

- Structure lecture and lab time to complete course objectives
- Evaluate assignments and provide constructive feedback
- Connect with students to encourage success in the course and create an inclusive environment
- Assisting with moving coursework online and creating virtual labs

Southport High School, Indianapolis, IN 2010-2014 & 2016-2017

Color Guard Instructor

- Collaborated with band, drumline, and color guard staff to choreograph routines
- Taught movement and equipment techniques and routines to a range of students
- Developed individualized teaching strategies for students

OTHER EMPLOYMENT:

IU Center for Survey Research, Bloomington, IN 2016

Telephone interviewer

- Recruited and screened potential subjects for eligibility to participate in online survey

Indiana University Hospital, Indianapolis, IN 2013- 2014

Guest Relations Associate

- Manned the front desk overnight to welcome and assist patients and visitors
- Maintained volunteer database

OTHER Relevant Coursework:

- Calculus I and II, Ivy Tech Community College 2020
- Python For Everybody – By University of Michigan, Coursera Currently Enrolled