Kelsey Archer

Contact Information

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Skills

- **Data Communications:** Excel, Word, Technical Lab Reports
- **Technology and Concepts:** MATLAB, SolidWorks (CSWA, CSWP), Flow Cytometry, Bead Array, Cell Staining

Experience

RayBiotech: Laboratory Technician — June 2021 - Present

- Launch and validate a new flow cytometry multiplex bead array product line which has been well received and reviewed by clients.
- Write and edit manuals for newly developed products
- Develop templates used for analysis of validation and testing data
- Test samples and analyze data for customers using a BD FACSCelesta
- Write and edit reports detailing the results of the tests and recommendations for further study

Georgia Institute of Technology: Teaching Assistent — August 2018 - May 2021

- Facilitated learning for an introductory biomedical engineering class regarding conservation principles
- Assisted with organizing course materials, discussions, and review sessions
- Edited student papers and provided feedback to improve quality of the final product

Federal Bureau of Investigation: Intern — Summers 2019 - 2021

- Collaborated with agents on data analysis and research regarding violent crimes and domestic terrorism
- Cleared for top secret security clearance

Academics

Georgia Institute of Technology: Bachelor's of Science — Graduation 2021 - 3.80 GPA

Department of Engineering

Research Assistant — **June 2021 - Present**

Pollen Packing and Transportation of Apis Mellifera (the Western Honeybee)

- Supported research on the method honeybees use to pack and attach pollen to their legs for transportation
- Wrote code to process SEM images of pollen pellets to determine relative pollen to water volume
- Manufactured and imaged artificially created pollen pellets

Capstone Design — **August 2020- December 2020**

Alleviating Airway Obstruction with a Headband Apparatus

- Designed a device that could be attached to the head under monitored anesthesia care to prevent airway obstruction with a hands free replication of the jaw thrust maneuver
- Device tested for weight bearing capabilities and maneuverability