

# CHARLES F. INGULLI III

charlesfi@outlook.com  $\diamond$  <https://ci2131a.github.io>

## EDUCATION

---

<b>Masters of Science in Statistics</b> American University, Washington, DC	August 2018 - December 2020 (Expected)
<b>Bachelors of Science in Mathematics and Economics</b> American University, Washington, DC	August 2014 - May 2018

## RELEVANT TOOLS

---

<b>Programming</b>	R, Python
<b>Design</b>	Fusion 360, AutoCAD, Inkscape, Blender, CorrelDraw
<b>Machine</b>	Prusa i3 MK3S, ULS PLS 4.75, Formlabs Form 1+
<b>General</b>	Excel (Microsoft Office Specialist), LaTeX, Git, Soldering

## SELECTED PROJECTS

---

### Master's Thesis Research

- Researched a broad selection of statistical methods that can be used to model risk.
- Studied the development of lower back pain in manufacturing industries.
- Carefully cleaned and structured the raw occupational cohort data into separate formats.

### wlsd: Wrangling Longitudinal Survival Data

- An R package for transitioning between different usable formats for fitting different statistical models.
- Provides functions that allow for using longitudinal format, counting process format, and count format data sets.
- Demonstrates methods on cohort data in low back pain studies through tutorial vignettes.

### Face Shield Fabrication

- Manufactured National Institute of Health approved design parts for use as personal protective equipment.
- Monitored the sanitary production of printed plastic headbands and laser cut plastic coverings.
- Assembled and distribute the face shields to medical professionals and first responders.

## HONORS/AWARDS

---

- |   |                         |
|---|-------------------------|
| · <b>AU Department of Mathematics and Statistics Summer Scholarship</b> | May 2020 - August 2020  |
| · <b>DC NASA Space Grant Award Recipient</b>                            | June 2020 - August 2020 |
| · <b>Symposium on Data Science Accepted Poster</b>                      | June 2020               |

## PUBLICATIONS

---

- Ingulli, Charles (In-Preparation). "A survey of statistical methods for investigating risk of low back pain in a cohort of manufacturing workers."
- Knapp, Adam, Charles Ingulli, Sergio Guerra-Abril, Laura Kubatko, Julia Chifman (In-Preparation). "Evaluation of the SVDQuartets as a Computationally Efficient Framework for Inferring the Evolutionary History of a Tumor."

## EXPERIENCE

---

### **Design and Build Lab - American University**

*Assistant Director*

*Creative and Technical Specialist*

*Washington, DC*

June 2019 - Current

August 2018 - Current

- Aid in the management of an academic makerspace teaching rapid prototyping to the campus community.
- Lead undergraduate coworkers through supplemental training and weekly meetings.
- Manage the shift schedule for student employees.
- Coordinate social media accounts such as Twitter, Instagram, and Facebook to advertise our space and interact with members.
- Teach specialized workshops on different design processes and machine usage.
- Assist lab members with general lab use as well as project related questions.
- Maintain the functionality of all machines and lab equipment through repairs and servicing.
- Participate in outreach events for other university classes as well as local high schools and middle schools.

### **Department of Mathematics and Statistics - American University**

*Research Assistant*

*Washington, DC*

January 2019 - May 2020

- Assisted in phylogenetic research project.
- Provided background research on likelihood methods and distance metrics
- Evaluated the statistical consistency of model specific estimators.

### **Department of Mathematics and Statistics - American University**

*Teaching Assistant*

*Washington, DC*

August 2018 - May 2020

- Performed academic tutoring for Mathematics and Statistics courses.
- Monitored assessments for course material.
- Created supplementary educational materials to aid in classroom activities.

### **Charles F. Ingulli, Jr. Professional Land Surveyor PLLC**

*Instrument Operator & Draftsman*

*New York, NY*

June 2014 - March 2020

- Operated measurement instruments designed to locate property lines and study elevations.
- Researched preexisting property records for current projects from city building archives.
- Drafted land surveys using design software for use in architectural and title services.

### **Wollmuth Maher & Deutsch LLP**

*Summer Intern*

*New York, NY*

July 2013 - August 2013

- Engaged in confidential meetings with clients and co-workers regarding legal strategy.
- Transcribed key facts in numerous depositions for ongoing cases.
- Examined litigation claims through sensitive documents.

### **Kenyon & Kenyon LLP**

*Summer Intern*

*New York, NY*

June 2013 - July 2013

- Participated in a patent dispute of dentistry equipment at the Southern District Court in New York City.
- Managed active legal documents in preparation for meetings.
- Researched intellectual property claims for active litigation.

## COMMITTEES/ORGANIZATIONS

---

**Don Myers Technology and Innovation Building Committee**  
*Member*

June 2019 - Current