

CHARLES F. INGULLI III

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EDUCATION

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

RELEVANT TOOLS

Programming	R, Python
Modeling	Fusion 360, AutoCAD, Inkscape, Blender, CorrelDraw
Machines	Prusa i3 MK3S, ULS PLS 4.75, Formlabs Form 1+
General	Excel (Microsoft Office Specialist), LaTeX, Git, Soldering

SELECTED PROJECTS

wlsd: Wrangling Longitudinal Survival Data

- An R package for transitioning between different usable formats for fitting different statistical models.
- Various functions allow for moving between formats such as longitudinal format, counting process format, and count format.
- Example low back pain data set included for tutorial vignettes.

Face Shield Fabrication

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

Master's Thesis Research

- Research a broad survey of statistical methods that can be used to model risk.
- Study the development of lower back pain in manufacturing industries.
- Carefully clean and structure the raw occupational cohort data into separate formats.

HONORS/AWARDS

- **AU Department of Mathematics and Statistics Summer Scholarship** May 2020 - August 2020
- **DC NASA Space Grant Award Recipient** June 2020 - August 2020
- **Symposium on Data Science Accepted Poster** 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, Ingulli, Charles, Guerra-Abril, Sergio, Kubatko, Laura, Chifman, Julia (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

- Develop R app for assessing the performance of SVDQuartets.
- Provide background research on likelihood methods and distance metrics
- Evaluate the statistical consistency of model specific estimators.

Department of Mathematics and Statistics - American University

Teaching Assistant

Washington, DC

August 2018 - May 2020

- Perform academic tutoring for Mathematics and Statistics courses.
- Monitor assessments for course material.
- Create 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

- Operate measurement instruments designed to locate property lines and study elevations.
- Research preexisting property records for current projects from city building archives.
- Create 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