

MASTER OF SCIENCE · APPLIED DATA SCIENCE · SARASOTA, FLORIDA

Knowledge is built in community.

An in-person program on Sarasota Bay, with one cohort entering each fall.

We chose knowledge and community.

Most data science master's are built for scale. Many programs rely on recorded lectures, discussion boards, and hundreds of students at once. New College teaches how to think, not what to think. Every member of this community brings ideas and experience that matter. The New College Applied Data Science Program takes one cohort each September, and runs either 18 months or two years based on the student's preference. Three semesters of coursework, and a full-time industry practicum. Our classes are small and intimate, and faculty draw students into their own research projects.

CURRICULUM

SEMESTER 1 · FALL

Applied Statistics I. How to tell a real pattern from a coincidence, and how far to trust a number.

Programming for Data Science. Writing Python that loads, reshapes, and analyzes data at working scale.

Databases. Where data lives, how to query it, and how to design a place to keep it.

Data Munging and Exploratory Analysis. Repairing broken data and finding out what is in it before you model anything.

January workshops. People from industry come in and work directly with the cohort for the month.

SEMESTER 2 · SPRING

Applied Statistics II. Regression, and the models that most working analysis is built on top of.

Data Visualization and Communication. Making a chart someone reads in five seconds, and saying what it means.

Applied Machine Learning. Training models that predict, and learning to tell when one is fooling you.

Distributed and Cloud Computing. Running work too big for a laptop, on the platforms employers use.

SUMMER

Industry Practicum. You work inside an organization on its own data-related projects. A supervisor there sets the work, and a professor from the program checks in. Can be taken either in the Summer after Semester 2 or in the Spring after Semester 3.

WHERE WE HAVE PLACED STUDENTS

Azuria

United States Department of Agriculture

United Nations

Duke University Athletics

SEMESTER 3 · FALL

Advanced Statistical Modeling. Data that is grouped, correlated, or measured over time, and the models for it.

Deep Learning and Artificial Intelligence. How neural networks work, how to train one, and where they beat simpler methods.

Practical Data Science. The whole sequence at once, on projects that run from raw data to result.

OUTCOMES

NATIONAL LABORATORIES AND SPACE

Planetary scientist, **NASA**

AI scientist, **Argonne National Laboratory**

Researcher, **Lawrence Berkeley National Lab**

TECHNOLOGY

Quantum photonics scientist, **Quantinuum**

Senior software engineer, **Akamai**

ANALYTICS AND CONSULTING

Lead data scientist, **YouGov**

Lead data scientist, **boodleAI**

Data scientist, **Stantec**

GOVERNMENT AND DOCTORAL STUDY

Data scientist, **CACI International**

Statistics doctorate, **Carnegie Mellon, NSF fellowship**

Faculty and staff.

Every course is held on site and a member of Faculty is the instructor. Our faculty come from both academia and industry and are able to provide an unmatched learning experience.



Gil Salu

INTERIM PROGRAM DIRECTOR · PRESIDENTIAL SCHOLAR IN RESIDENCE

Twenty-five years in software, across enterprise systems, SaaS, and cloud. Fourteen of them at Charles River Development, the institutional trading and portfolio management platform acquired by State Street, and earlier in senior client technology and solutions roles at IBM. Advises Fortune 500 asset managers on technology adoption, AI integration, and cryptographic tools. Teaches databases and cloud computing.



Rohan Loveland

ASSISTANT PROFESSOR OF COMPUTER SCIENCE

D.Phil. in Electrical Engineering, Oxford University; MBA, University of Texas at Austin. Worked on classified projects at Los Alamos National Laboratory, then served as CEO of a biomedical device startup that won FDA approval. Researches virtual reality and machine-learning anomaly detection, applied to everything from locating crashed lunar probes to finding unusual objects in drone imagery. Holds two patents. Teaches applied machine learning.



Toby Wade

ASSISTANT PROFESSOR OF DATA SCIENCE AND STATISTICS

Ph.D. in Statistics, London School of Economics and Political Science. Twenty years across equities, cryptocurrencies, futures, and currencies at hedge funds, financial exchanges, and banks, working on alpha research, portfolio management, and trading strategy. Works in natural language processing, large language models, and generative AI for market research. Quoted in the Financial Times, Institutional Investor, CNBC, and Yahoo Finance. Teaches deep learning and artificial intelligence.



Andrey Skripnikov

ASSISTANT PROFESSOR OF STATISTICS

Ph.D. and M.S. in Statistics, University of Florida; BSc in Applied Mathematics and Computer Science, Lomonosov Moscow State University. Postdoctoral associate and lecturer at the University of Houston, teaching statistical computing and machine learning. Researches high-dimensional data and time series, applied to gene expression, brain activity, econometric series, and sports data. Teaches applied statistics and data visualization.



Bernhard Klingenberg

PROFESSOR OF STATISTICS

Ph.D. in Statistics, University of Florida; M.S., Graz University of Technology, Austria. Professor of Statistics at Williams College for more than a decade before joining New College. Researches categorical data analysis, simultaneous inference, and multiple comparisons, and consults for the medical and energy sectors. Co-author of Statistics: The Art and Science of Learning from Data. Teaches applied statistics and advanced modeling.



Angel Novikov

ADJUNCT PROFESSOR OF STATISTICS

Ph.D., University of Florida. Chief AI Officer, Chief Data Officer, and Managing Director at Analytical Strategies Group, working on enterprise AI strategy, governance, and regulatory compliance. Twelve years at Citi, most recently Senior Vice President and Global Processing Risk Design Head in Operational Risk Management. Earlier, Senior Risk Manager of Operational Risk Analytics at Fannie Mae, Managing Consultant for Risk Analytics at Navigant Consulting, and Manager of the Data Quality and Integrity Group at Deloitte & Touche. Teaches Applied Statistics I.



Tyrone Ryba

ASSOCIATE PROFESSOR OF BIOLOGY

Ph.D., Florida State University; B.A., New College of Florida. A computational biologist working on epigenetic regulation and the biology of human disease, examining how genome structure relates to function and how large-scale domain regulation goes wrong in respiratory disorders and cancers. Teaches Data Munging and Exploratory Data Analysis, Principles of Bioinformatics, Computational Methods in Biology, and Biostatistics.



Melissa Elec

PROGRAM COORDINATOR, APPLIED DATA SCIENCE

The first person most applicants talk to. Reach her at graduateDS@ncf.edu or (941) 487-4175.

PROGRAM HIGHLIGHTS

RANKING	No. 8 among the country's best data science master's, <i>Fortune</i> 2025
TUITION	\$11,384 for the first year, Florida resident
LENGTH	Three semesters of coursework, plus a full-time practicum
CREDITS	Thirty-six, taken in one designed sequence
COHORT	One, entering each fall
ADMISSION	Programming and linear algebra before enrollment; we will help you plan for them.
DEADLINES	Applications open September 22 · Early action December 1 · Regular decision February 1 · Rolling Admissions after

Cognitio et Communitas

Community and knowledge.

Applications open September 22 for the cohort entering next fall.

apply.ncf.edu/portal/app_gr
graduateDS@ncf.edu
ncfdatascience.com