Hugh B. Crews

Contact Information

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Education

- **May 2011**: Master of Business Administration, University of North Carolina Wilmington

- **August 2008**: Ph.D., Statistics, North Carolina State University
  Advisors: Dr. Leonard Stefanski and Dr. Dennis Boos
  Dissertation: *Fast FSR Methods for Second-Order Linear Regression Models*

- **May 2005**: Master of Statistics, North Carolina State University

- **May 2003**: B.S., Statistics, Minor in Economics, North Carolina State University

Experience

- **Owner/Data Scientist, Eligis Analytics, Inc., Wilmington, NC** (April 2015 - Present)
  - Consult with organizations to define key questions and decisions to improve their business.
  - Develop solutions for data collection, cleaning, and preparation.
  - Create applications and code snippets for recurring reports with data summaries and insights.
  - Build statistical models for prediction and analysis of relationships.
  - Develop applications for utilizing data and insights tailored to business needs.
  - Mentor new data science team members, interns, and students.
  - Explore and build prototype applications using modern APIs for developing LLM-based solutions

- **PhD Statistician, New Hanover Regional Medical Center, Wilmington, NC** (July 2013 - March 2015)
  - Analyzed key quality measures and patient satisfaction data.
  - Developed graphical tools for reporting data to stakeholders.

- **Biostatistician III, PharPoint Research, Inc., Wilmington, NC** (September 2011 - May 2013)

  - Conducted statistical analysis for clinical research.
  - Developed statistical analysis plans and programs for datasets, tables, listings, and figures.

- **Adjunct Professor, Mt. Olive College, Wilmington, NC** (December 2008 - December 2012)

  - Taught introductory statistics courses in business and healthcare management programs.

- **Visiting Research Assistant Professor, University of North Carolina Wilmington, Wilmington, NC** (December 2008 - September 2011)

  - Consulted on experimental design and analysis for university researchers.

- **Development Tester II, SAS Institute, Cary, NC** (June 2008 - November 2008)

  - Tested and documented bugs for various JMP platforms.

- **Student Co-op, Environmental Protection Agency, Durham, NC** (September 2006 - December 2006)

  - Analyzed historical trends of principal air pollutants using regression and imputation techniques.

- **Teaching Assistant, North Carolina State University** (August 2005 - May 2006)

  - Taught introductory statistics courses during fall and spring semesters.

- **Technical Student, SAS Institute, Cary, NC** (Various dates 2001 - 2006)

  - Conducted testing, documentation, and programming tasks for SAS platforms.

Research Interests

- Variable and model selection

- Time series analysis

- Data mining

- Business analytics

- LLM prompt engineering and applications

Honors and Awards

- 2011: Elected Beta Gamma Sigma Business Honor Society

- 2008 - 2011: MARBIONC Postdoc Fellow

- 2003 - 2008: NSF VIGRE Fellow

- 2003: GlaxoSmithKline Scholar Award

- 2003: Graduated Summa Cum Laude

- 2003: Elected Phi Kappa Phi Honor Society

- 2003: Elected Mu Sigma Rho Statistics Honor Society

- 2000 - 2003: SAS Scholar

Publications

- Crews, H.B., Boos, D.D., and Stefanski, L.A. (2011). FSR Methods for Second-Order Regression Models. *Computational Statistics and Data Analysis*, 55, 2026-2037.

Computing/Technology Skills

- R, Python, SAS, Tableau

- Git, Asana

- REST API, SQL, AWS

- Excel/VBA, Word, LaTeX