Joseph T. Meskey

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Profile

- 15+ years of successful teaching experience in economics, data analytics, information systems, and business administration.
- Master's in Economics from Penn State University.
- Extensive senior-level IT and data analytics experience in corporate, government, and research settings.
- Excellent verbal and written communication skills. Have authored award-winning academic publications and served as an editorial consultant to several academic publishing firms.
- Diverse teaching background that spans in-person classes, remote instruction, courses for military service members that were taught on-base, and technical training classes for IT professionals.

Education and Training

- M.A., Economics, Penn State University.
- B.A., Economics, Indiana University of Pennsylvania
- IT Training

SQL Server Programming, Learning Tree Intl.
ASP.NET Programming, TakeNote Technologies
SQL Server Programming, DB Basics
Multimedia Design, University of North Carolina
C/C++ Programming, North Carolina State University
Data Structures, East Carolina University

Courses Taught at the University Level

Principles of Microeconomics
Operations Management
Public Health Data Analysis
Principles of Macroeconomics
Information Systems
C and C++ Programming
Regulation and Antitrust
Data Analytics Using SAS
Business Statistics

Experience

Instructor, Department of Economics, East Carolina University
Full time instructor from 1982 to 1988 and 2011 to 2015, and Adjunct/Remote Instructor since 2023.
East Carolina University is the 4th largest public university in North Carolina (enrollment of 28,000 in 2024).

- Taught Micro and Macroeconomics, Data Analytics Using SAS, Public Health Data Analysis for ECU's School of Medicine, Antitrust & Business Regulation, and writing-intensive economics classes.
- Served as advisor to undergraduate economics majors, and for students in ECU's pre-law program.
- Held seminars on job search techniques for graduating students.
- Collaborated with faculty on several quantitative research projects.
- Served on strategic planning, curriculum development, and accreditation committees.

Associate Director for Data Analytics, Insmed, Inc., 2021 to 2024
Insmed is a biopharmaceutical firm specializing in the development of treatments for rare lung diseases.

- Led enterprise-wide software development and systems validation initiatives.
- Coordinated IT-related acquisitions and subsequent systems validation for FDA compliance.

- Developed technical training courses for staff and served as lead instructor.
- Served as subject matter expert and trainer to the statistical programming team.

SAS Programmer/Developer, Gilead Sciences (contractor), 2020 to 2021
Gilead is the 8th largest pharma firm in the U.S. with offices in North America, Europe, and Australia.

- Designed SAS programs and complex SAS macros for purposes of validating and reporting data from Gilead's clinical trials worldwide.
- Produced data integrity reports using SAS/BASE, SAS/MACRO, PROC SQL, server scripting, and VBA.
- Created automated SAS processing and data management tasks using Windows and Linux scripting.

Assistant Director for Analytic Programming, Sheps Center for Health Services Research, 2018 to 2020
The Sheps Center, based at the University of North Carolina at Chapel Hill, is a state-funded health research center employing over 200 researchers, health care providers, and public health professionals.

- Managed a team of research professionals performing analytic programming, statistical analysis and data management for health research projects funded by the State of North Carolina.
- Designed a very large-scale data warehouse of Medicare and Medicaid data used in health research projects. This multi-terabyte warehouse stores a regularly updated copy of all health insurance claims records from North Carolina's entire Medicaid system and Blue Cross of North Carolina.
- Collaborated with medical researchers and government policy makers on numerous studies of the cost and quality of health care services.

Director of Information Technology, North Carolina Office of Indigent Defense, 2008-2011, 2015 to 2018
The Office of Indigent Defense is the division of the North Carolina state court system oversees all public defenders offices and court-appointed counsel statewide.

- Designed large-scale databases used for state court system research and policy evaluation.
- Managed the programming and implementation of a web-based system used statewide to manage payments to court-appointed attorneys and public defenders.
- Statistically analyzed state expenditures, court outcomes, and judicial resource allocation.

Senior Developer and Analyst, Rho, Inc., 2006 to 2008
Rho is a contract research organization providing research support to pharmaceutical and biotech firms.

- Served as lead developer on project to re-engineer application used enterprise-wide to store metadata on clinical research results and ultimately transmit this data to the FDA.
- Consolidated 200+ legacy databases of research metadata into a single Oracle database system.

Supervisory IT Specialist, U.S. Dept. of Veterans Affairs, 2004 to 2006

- Provided programming and network support for business intelligence applications.
- Statistically analyzed data on the quality of care being provided at VA hospitals nationwide.
- Authored a web-based helpdesk application used in vetting of credentials of health care providers.

Site Manager and Project Director, Westat, Inc., 1995-2004
Westat is a contract research organization based in Rockville, Maryland.

- Served as site manager and directory of Westat's Research Triangle Park location.
- Managed a team of analytic programmers, statisticians, and software developers providing programming and research support to the National Institutes of Health.
- Created numerous web applications to collect, monitor, and analyze health research data.

Assistant Professor, School of Business, Barton College, Wilson, NC, 1990 to 1995

- Taught courses in Information Systems, Business Statistics, Economics, Operations Management, C/ C++ programming, and Introduction to Computer Applications.
- Served as Coordinator and lead advisor for the School of Business's minor in Information Systems.
- Developed information systems courses taught by the College's School of Business.

Adjunct Instructor, North Carolina Wesleyan College / Seymour Johnson Air Force Base, 1994

- Taught an undergraduate class in management information systems for North Carolina Wesleyan College that was offered to servicemen and women at the Seymour Johnson Air Force Base.

IT Consultant, North Carolina State Ethics Commission, 2007 to 2014

- Created database system to record and report on legal advisory opinions.
- Evaluated IT security issues and provided guidance on limiting access to sensitive data.

Academic Publications

"An Analysis of Dynamic Price Discrimination in Airlines" (with Diego Escobari and Nicholas Rupp), Southern Economic Journal. January 2019, 85:3, pp. 639-662. This was the lead article of the December 2018 edition of the Journal and was honored as the Southern Economic Association's Paper of the Year. https://onlinelibrary.wiley.com/doi/10.1002/soej.12309

"Price Discrimination and Focal Points for Tacit Collusion: Evidence from the Airline Industry" (with Diego Escobari and Nicholas Rupp). Under review at Journal of Economics Behavior and Organization. https://papers.ssrn.com/sol3/papers.cfm?abstract_id=2815279

"Dynamic Price Discrimination in Airlines" (with Diego Escobari and Nicholas Rupp, 2018, MPRA Paper 88078, University Library of Munich, Germany. https://ideas.repec.org/p/pra/mprapa/88078.html

"Pregnancy Medicaid Improvements in a Nonexpansion State After the Affordable Care Act" (with Jonas J. Swartz, Gretchen S. Stuart and Maria I. Rodriguez), Annals of Family Medicine January 2021, 19 (1) 38-40. https://doi.org/10.1370/afm.2615

Honors and Awards

2019 Georgescu-Roegen Prize for Paper of the Year by the Southern Economic Association.
This is an annual award given by the Association for the best article of the year published in the Southern Economic Journal. The paper, entitled "An Analysis of Dynamic Price Discrimination in Airlines," appeared in volume 85, issue 3, January 2019 of the Journal.

Will Mason Award, Penn State University
Award for Best Research Paper by a Graduate Student in Penn State's economics program.

Information Technology Skill Set

Business Intelligence and Automation Applications

Have created many business intelligence applications. This work entailed:

- automated ETL applications to load BI warehouses with data imported from external sources.
- fuzzy search algorithms for linkages of people across an array of data sources.
- Macro-enabled Excel workbooks that pull data directly from SQL Server, Oracle, and SAS.
- automated ETL applications to load BI warehouses with data imported from external sources.
- complex automated screen-scraping of data from government and corporate websites.

Database Development, Programming and Administration

- Extensive experience with Microsoft SQL Server, including T-SQL, DDL, DCL, TCL, stored procedures, triggers, Integration Services, and security. Additional development experience with Oracle.
- Substantial experience cleaning and validating messy data to ensure referential and entity integrity.
- Have created many web applications with SQL Server and Oracle back-end databases storing health records, financial information, and data collected in health research projects.

Web Application Development

- Extensive knowledge of HTML, DHTML, CSS, DOM, ASP.Net, JavaScript, AJAX, XML and more.
- Substantial development experience in a Microsoft IIS and SQL Server development environment using ASP.Net and ASP 3.0, C#, Visual Studio, and related tools.

SAS Programming and Development

- Expert level knowledge of SAS data-step programming, SAS connectivity to relational databases using PROC SQL, SAS/Macro programming, SAS/ODS, SAS/ACCESS and SAS/STAT.
- Have used SAS to import data from an array of external databases, including insurance claims, medical records, and financial data, using OLEDB, ADODB, ODBC, and a host of other connectivity tools.
- Have coordinated research programming that involved very large data warehouses with terabytes of data, millions of records, and thousands of fields.

Networking and IT Infrastructure

- Experience with a wide variety of architectures, including Windows server networks, Linux servers and workstations, and cloud-based hosting platforms using VMware and similar virtualization technologies.
- Served as a network administrator for several government networks.
- Extensive knowledge of web hosting and development using Microsoft IIS.
- Expert level knowledge of Windows server and workstation scripting for office automation applications, user account management, network permissions and policies.