

Amita Singh

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EDUCATION

D.Sc. Systems Engineering & Finance, George Washington University, 2008

M.S. Operations Research, George Washington University, 1998

B.A. (Honors), Mathematics, University of Delhi, 1994

PROFESSIONAL EXPERIENCE

Zicklin School of Business, Baruch College **Lecturer**

New York
08/2019–present

- Instructing undergraduate courses in operations management and management science at the Department of Management, Zicklin School of Business.

Zicklin School of Business, Baruch College **Adjunct Assistant Professor**

New York
01/2017–5/2019

- Instructing undergraduate courses in operations management and management science at the Department of Management, Zicklin School of Business.

Integrated Marketing, New York University (NYU) **Part-Time Faculty**

New York
01/2019–Present

- Teaching graduate level courses in business analytics and data visualization at the Integrated Marketing Department within the Division of Programs in Business, NYU.

Applied Analytics, Columbia University **Lecturer**

New York
09/2016–Present

- Instructor and Curriculum Designer of the Columbia University Girls in STEM initiative which mentors and guides high school girls in STEM courses and college readiness.
- Instructed and developed graduate level courses on data analysis methods and statistical programming languages in the Applied Analytics program. Taught in both face-to-face and online format.

Bard Early College at Harlem Children's Zone Promise Academy (HCZ-PA) **Adjunct Professor of Mathematics**

New York
08/2017–7/2018

- Developed curriculum and taught courses in STEM subjects at the BARD Early College program at HCZ-PA.
- Participated in pedagogical workshops conducted by Bard's Master of Arts in Teaching covering effective strategies in teaching and stimulating and fostering the intellectual growth of students.

Logistics Management Institute (LMI) **Management Consultant**

Virginia & New York
06/2005–9/2016

- Developed data driven models to build project cost estimates and cost escalation indexes for large infrastructure projects using statistical methods to assist senior management in decision making on scenario selection.
- Developed root cause analyses, engineering economic studies, budget and policy assessments, and cost uncertainty assessments of capital-intensive infrastructure projects for US federal agencies.
- Served as a technical member on a Blue-Ribbon panel to advise the Governor of Washington on the reasonableness and validity of the state's cost estimates, finance plans, and implementation plans for two multi-billion-dollar highway transportation projects in Seattle.

The George Washington University (GWU) **Professorial Lecturer**

Washington DC
08/2010–12/2012

- Taught graduate level courses in engineering economics, cost estimation, and data analysis at the Engineering Management and Systems Engineering department (EMSE).
- Helped establish an academic partnership between LMI and the EMSE department which funded doctoral students whose research was pertinent to LMI's business lines.

Caminus Corporation
Strategic Consultant

New York
04/2001–9/2002

- Developed power market assessments and asset valuations for acquisition and construction of power generation facilities for power generation companies and investment banks,
- Developed quality assurance procedures for data warehousing and business processes for the front, middle, and back offices for the Power Marketing group, NRG Energy to prepare for NRG Energy's credit rating audit by rating agencies.

ICF Consulting
Senior Consultant

Virginia
07/1998–03/2001

- Served as a lead member of a product development team to develop databases and graphic user interfaces for IPM™, a power price forecasting model. Interacted with software developers and model users to develop, test, and debug IPM™. Directed and trained to facilitate comprehensive knowledge sharing among all users in the Electric Utility group at ICF.
- Analyzed US regional energy markets and developed independent power plant dispatch and revenue profiles for power generation companies to enable banks to evaluate financing viability of asset acquisition and construction.

SOFTWARE SKILLS

Programming Languages: R, SAS, SAS/JMP, SPSS, Python

Data Visualization: Shiny

Software Packages: MS OFFICE, MS ACCESS, MS VISIO, MS PROJECT, @RISK

SELECT LIST OF PUBLICATIONS

Current Research

"Dependence Modeling in Uncertainty Analysis" A. Singh, J.R. van Dorp, D. Galloway.

FELLOWSHIP AND AWARDS

Academic

National Science Foundation Grant "Speaking the Truth in Maritime Risk Assessment" (2002-2004).
School of Engineering and Applied Sciences Graduate Engineering Fellowship (1998).
George Washington University Tuition Fellowship (1996-1998).

Professional

Excellence Award from Energy group at ICF Consulting for development of their proprietary production cost model (IPM^R) and staff training thereafter.
