

MATTHEW MACARTY

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CURRICULUM VITAE

EDUCATION

M.B.A.	Finance concentration	University of New Hampshire	2002
B.S	Nutrition and Biological Sciences	University of New Hampshire	1997

COMPETENCIES

Teaching: Over 15 years experience designing and delivering Graduate and Undergraduate courses in Computing Technologies and Decision Sciences

Curriculum Development: Design of both classroom and online learning curricula

Collaboration: Skilled in working with small teams to design curricula, develop accreditation standards and pursue sponsored research topics

Sponsored Research: Investigating Scientist in both Phase I and Phase II Small Business Innovation Research Grants on topics in machine learning (Natural Language Processing, Object Detection)

Authorship: Co-author of numerous sponsored research proposals, provisional patents and academic publications, most recently appearing in IEEE Conference Papers, and numerous unpublished teaching cases

Communication: Active in developing video tutorials with over 3.3 million views currently; proposed and developed five video courses for major publishing houses

PROFESSIONAL & ACADEMIC EXPERIENCE

Babson College, Wellesley, MA

2017 – Present

Adjunct Lecturer

Courses Taught

- Modeling with Excel – development of spreadsheet models, visualization and data analytics
- Business intelligence and Data Analytics
- Managing Information Technology and Systems
- Problem Solving & Software Design with Python
- Operations Management

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BENTLEY UNIVERSITY, Waltham, MA

2007 – Present

Adjunct Lecturer

Courses Taught

- Systems Analysis and Modeling, including UML with a focus on report development.
- Introductory Programming, focused on procedural and functional application development, and introductory object-oriented programming. Emphasis on problem solving using Java and Python.
- Introduction to Data and Information Management, and introductory database management system course based on MS Access and MySQL database management systems
- Information Technology and Computer System Concepts, including current topics in the industry, networking, security and privacy, cloud computing, web development, and Excel

MACHINE ANALYTICS, Belmont, MA

2012 – 2019

Research Consultant

- Collect analyze and interpret structured and unstructured data
- Develop, test and implement machine-learning algorithms for applications in object detection and natural language processing
- Development of automation data labeling application in support of data preprocessing
- Contributing author of peer-reviewed research for journal publication and conference presentation
- Contributing investigator for several Department of Defense SBIR funded research topics
- Authored three provisional patents

PAUL COLLEGE OF BUSINESS AND ECONOMICS, Durham, NH

2004 – 2016

Lecturer

Courses Taught

- Quantitative Methods (Management Science), including mathematical spreadsheet modeling, forecasting, deterministic and probabilistic modeling, decision analysis, Monte Carlo simulation and optimization
- Database Management Systems, including design and development of relational databases using industry leading platforms such as MySQL.
- Operations Management, including Project Management, Aggregate Planning, Inventory Management, Statistical Process Control, Product Design and Process Selection, Supply Chain Management, and Total Quality Management.
- Business Statistics, including descriptive and inferential statistics, probability, and regression as well as introductions to graphical and analytical software tools such as R, Python, and Excel.
- Management Information Systems, including foundational data management concepts; focused on applied design, implementation and integration of information systems with Microsoft Access, Excel, and HTML.

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EMME CONSULTING, Durham, NH

2003 – 2004

Founder

- Provided strategy, planning, and pitch development services to startups with high growth potential.
- Introduced appealing ventures to Angel investing groups, attracting the attention of Microsoft co-founder Paul Allen.
- Developed and administered a quarterly Angel investor activity survey.
- Produced quarterly Angel investor activity and analysis
- Modeled, designed and sourced interactive Angel Equity™ reporting web portal.

CENTER FOR VENTURE RESEARCH, UNIVERSITY OF NEW HAMPSHIRE, Durham, NH

2001 – 2002

Research Associate

- Conducted primary and secondary research in the Angel investor market.
- Collected and compiled investor activity metrics.
- Authored original research and published findings in peer-reviewed journals.