

# Valentino Zocca

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**Summary** - I am a Ph. D. in Mathematics whose expertise is to identify and solve opportunities through data analysis with a proven track record in both managerial and technical roles, with an ability to get things done and solve intricate problems with elegant simplicity. My strategic vision and focus on execution have resulted in tangible outcomes throughout my career. Whether it's doubling the number of product releases per year, significantly reducing testing costs, or saving millions through improved customer experience, I have consistently delivered results that exceeded expectations. I create new frameworks that can run in automated fashion, are safeguarded from potential failures by implementing unit tests, and use machine learning to prevent or quickly detect anomalous behaviours. To determine benefits, I have implemented look-alike techniques before identified events to measure outcomes and opportunities.

## Achievements

- Directed changes for Customer Service Experience that saved 15MM/year and produced recommendations for further increased revenues of 80MM/year
- Designed machine learning models (categorization/budgeting/recurrent expenses) in use in Citi mobile app for retail consumers that extended app use
- Reduced execution times of engineering and satellite images delivery processes from 2 weeks to 4 hours through automation
- Doubled number of releases per year for Boeing satellite visualisation software resulting in improved sales
- Reduced costs by 60% through redesign of testing processes

## PROFESSIONAL EXPERIENCE

Senior Vice President, Citi  
New York, NY, 2017-current



Independent Consultant  
Italy and USA, 2012-2017



Mathematical Scientist and Senior  
Engineering Manager, Boeing  
Springfield, VA, 2001-2014



Other Experience  
USA and Europe



EDUCATION



Ph.D. in Mathematics, University of Maryland  
 Graduate Research in Mathematics, University of Warwick, Coventry, UK  
 "Laurea" (B.A.) in Mathematics, University of Rome, Rome, Italy

EXPERTISE



• Management & Leadership • Strategy • Data Analysis • Data Visualisation • Statistics

SKILLS



• Research • Deep Learning • Neural Networks • Revenue Increase Analysis • Innovation • Creativity

PUBLICATIONS



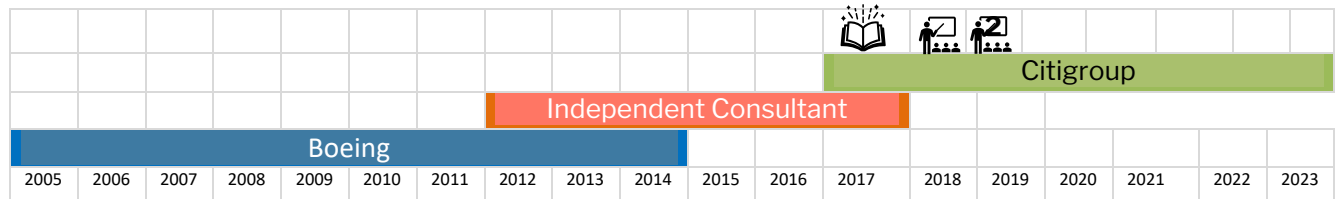
- "Python Deep Learning", Packt (2017)
- "A Poincaré polyhedron theorem for complex hyperbolic geometry", Journal fur die reine und angewandte Mathematik
- "Fox Calculus, Symplectic Structures and Moduli Spaces", Transactions American Mathematical Society

CONFERENCES



- 2019 Financial Services Technology Summit Florida
- 2019 AI in Finance Summit, New York
- 2018 AI in Finance Summit, New York

TIMELINE



COMPETENCE



Leadership	★★★★★	Python	★★★★★	Customer Service	★★★★
Strategy	★★★★★	AI	★★★★★	Anomaly Detection	★★★★
Innovation	★★★★★	Data Analysis/SQL	★★★★★	Automation	★★★★

LINKS



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