

## CURRICULUM VITAE

Jorge Nocedal

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Department of Industrial Engineering and Management Sciences  
Northwestern University  
Evanston, Illinois. 60208

### *PROFESSIONAL EXPERIENCE*

2017-present	Walter P. Murphy Professor, Northwestern University
2013-2017	David and Karen Sachs Professor and Chair, IEMS Department, Northwestern University
1983-2012	Assistant Professor, Associate and Professor, Dept. of Electrical Engineering and Computer Science, Northwestern University
1981-1983	Research Associate, Courant Institute of Mathematical Sciences, NYU
1978-1981	Assistant Professor, National University of Mexico

### *EDUCATION*

1974-1978	Rice University, Ph.D. in Mathematical Sciences
1970-1974	National University of Mexico (UNAM), B. Sc. in Physics

### *RESEARCH INTERESTS*

Nonlinear optimization, stochastic optimization, machine learning, scientific computing, software; applications of optimization in optimal control, optimal design, and energy.

### *HONORS AND DISTINCTIONS*

2024	John Von Neumann Prize (SIAM)
2021	Lagrange Prize in Continuous Optimization
2020	Elected to the US National Academy of Engineering
2019	Outstanding Engineering Alumnus Award, Rice University
2017	John Von Neumann Theory Prize (INFORMS)
2012	George B. Dantzig Prize
2010	SIAM Fellow
1998	Bette and Neison Harris Professor of Teaching Excellence
1998	Invited Speaker, International Congress of Mathematicians

### *EDITORIAL BOARDS*

2010- 2014	Editor-in-Chief, SIAM Journal on Optimization
1989- 2016	Associate Editor, Mathematical Programming
2006- 2009	Associate Editor, SIAM Review
1995- 2001	Co-Editor, Mathematical Programming
1990- 2014	Associate Editor, SIAM Journal on Optimization

## ACADEMIC ACTIVITIES

Development, planning and implementation of *Engineering First*, a novel curriculum for undergraduate engineering education at Northwestern in which mathematics, physics, design, and computing are integrated and taught in the context of engineering applications.

## PATENT

*Debt Collection Practices*, Patent 7,403,923, issued July 22, 2008,  
US Patent Trademark Office.

## TECHNOLOGY AND BUSINESS

2001	Co-founder and President, Ziena Optimization Inc.
2001	Co-Developer, KNITRO software package
2002-2015	Chief Scientist, Ziena Optimization Inc.

## CONSULTING

2012-2020	Artelys
2001-2012	Ziena Optimization LLC
2012-2014	Google
2004	Chevron-Texaco
2001-2002	Accenture
1998-2002	Synopsys, Sunnyvale California
1993	AMOCO
1988	Resource Control Systems, Chicago II
1987	SYSTAT, Evanston II
1984	Gould Research, Chicago II
1983, 1988	UK Atomic Energy Research Establishment, Harwell, England

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