

# CURRICULUM VITAE

## Rafal Goebel

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## RESEARCH

### Areas of interest:

variational, set-valued, convex analysis; hybrid and generalized dynamical systems; control and optimal control; optimization

### Research Topics:

hybrid systems: generalized time domains, generalized solution concepts, robust stability theory; conjugate duality and convex functions in control and optimal control: dual optimal control problems on infinite time horizon, stability theory for linear differential inclusions, regularity of solutions to Hamilton-Jacobi equations, feedback stabilization of systems with saturation and constraints

## EDUCATION

### Universities attended:

89-92, 93-94 Maria Curie Sklodowska University, Lublin, Poland

92-93 Rutgers University, New Brunswick, NJ, USA

94-99 University of Washington, Seattle, WA, USA

### Degrees:

M.Sc. 94, Institute of Mathematics, University of Maria Curie-Sklodowska, Lublin, Poland (graduated with highest honors); thesis: *On the Stability of an  $L^2$ -angle*

Ph.D. 00, Department of Mathematics, University of Washington, Seattle; advisor: R.T. Rockafellar, thesis: *Convexity, Convergence and Feedback in Optimal Control*

### Awards and Honors:

92-93 Ambassadorial Scholarship from Rotary International

93-94 Scholarship of the Polish Ministry of Education

winter 00 McFarlan Fellowship, Department of Mathematics, University of Washington

**EMPLOYMENT**

- 94-00 Teaching and Research Assistant at the Department of Mathematics, University of Washington
- summer 98 Researcher at the International Institute for Applied Systems Analysis, Vienna, Austria (Young Scientist Summer Program)
- 00-02 Post-Doctoral Fellow and Sessional Instructor at the Department of Mathematics, University of British Columbia and the Department of Mathematics, Simon Fraser University
- 02-04 Post-Doctoral Fellow at the Center for Control Engineering and Computation, Department of Electrical and Computer Engineering, University of California, Santa Barbara
- spring 05 Part-Time Lecturer at the Department of Mathematics, University of Washington

**TEACHING EXPERIENCE AND TRAINING**

- 93-94 University of Maria Curie-Sklodowska: Teacher Education Program, including teaching elementary and high school mathematics classes
- 94-99 University of Washington, Teaching Assistant and Instructor  
 experience includes: Teaching Assistant Training programs at Department of Mathematics and Center for Instructional Development and Research; Teaching Assistant for: elementary calculus, upper level undergraduate and graduate optimization courses; Instructor for: elementary calculus, upper level undergraduate linear optimization course; Tutor at Math Study Center
- 00-02 Simon Fraser University and University of British Columbia, Instructor  
 experience includes: Introductory Mathematics for Social & Management Sciences, Integral Calculus, Ordinary Differential Equations
- spring 05 University of Washington, Lecturer