

# CURRICULUM VITAE

## OTTO BRETSCHER

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### PROFESSIONAL HISTORY

- COLBY COLLEGE, Waterville, ME**  
**Assistant Professor of Mathematics** 1998-Present  
Teach Calculus I and II (Math 121 and 122),  
Linear Algebra (Math 253), Vector Calculus (Math 302),  
and Differential Equations (Math 311)  
Edit text in Linear Algebra, now in its third edition.  
Develop text in Calculus.  
Place and advise first-year students.  
Work in committees, such as three search  
committees for tenure-track positions (2002-2006),  
and the Off-Campus Study Advisory Committee (2002-2004).
- HARVARD UNIVERSITY, Cambridge, MA**  
**Instructor, Harvard Summer School** 1991-Present  
Teach Introductory Calculus (Math S-1a).  
Assist the "Derek Bok Center for Teaching and Learning"  
in developing training materials for graduate students.
- Preceptor, Department of Mathematics** 1991-1998  
Taught, coordinated and designed Calculus and Linear Algebra courses.  
Developed text in Linear Algebra.  
Supervised instructors and course assistants.  
Placed and advised students.  
Trained graduate students in teaching.  
Earned "Certificate for Distinction in Teaching" each year.
- Instructor, Kennedy School of Government** 1989-1992  
Taught a refresher course in Calculus for the Mid-Career Program.
- KOC UNIVERSITY, Istanbul, Turkey**  
**Visiting Professor** 2005-2006  
Designed, revised and taught courses in  
Calculus and Linear Algebra.

**BRANDEIS UNIVERSITY, Waltham, MA****Visiting Scholar****1984-1986**

Swiss National Science Foundation Fellow.

Senior Researcher: Prof. M. Auslander.

Published *On a Theorem of Nazarov and Roiter* (with G. Todorov),  
Springer Lect. Notes, **1177** (1986), 50-54.**UNIVERSITY OF ZÜRICH****Research and Teaching Assistant****1979-1984****EDUCATION****HARVARD UNIVERSITY, Cambridge, MA****M.A. in Mathematics****1991**Supplementary studies with a focus on Algebra,  
under J. Tate, B. Gross, B. Mazur, J.-P. Serre, et al.**1986 - 1991****UNIVERSITY OF ZÜRICH****Ph.D. in Mathematics****1981**Dissertation: *Selfinjective and Simply Connected Algebras*.Published in Manus. Math, **36** (1981), 253 - 307.Related work published in Bull. Soc. Math. France, **111** (1983), 21-40.

Advisor: Prof. P. Gabriel.

**B.S. in Mathematics****1979**Undergraduate Studies in Mathematics, with Minors in  
Philosophy and Physics, under H. Amann, P. Gabriel, K. Strebel,  
V. Strassen, B. v.d. Waerden, N. Wirth (ETH), et al.**1975 - 1979****TEXTBOOK****DEVELOPMENT***Calculus*, in preparation

A manuscript for introductory calculus (Math 121) has been completed and is being class tested.

*Linear Algebra With Applications*, Prentice Hall, 1997 (First Edition)A brief review in the *American Mathematical Monthly* [Vol. 104, No. 7] found the text to be “full of nice applications.” It praised the “great problems”, “appealing order of topics”, and the use of dynamical systems as a unifying theme.

This text has been used at over 100 schools in the United States., including Harvard, Yale, Princeton, Stanford, UCLA, Cornell, and the University of Michigan.

A second edition was published in 2000, and a third edition in June 2004.

The text has been translated into Chinese and published by Pearson, Taiwan, in 2004.

*Calculus*, D. Hughes Hallett, A.M. Gleason et al., Wiley, 1994

Assisted in the development of this best selling calculus text. Contributed a large number of exercises.