

# CSE 590 X: “How to PhD”

Joe Eckert  
& Michael Ernst

# Goal: teach grad student survival skills

Writing

Speaking

Pitching

Research

Relationships

Soft skills

Careers

Party

# Logistics

Meets Tuesdays, 4:30-6:00pm, autumn and winter quarters, in room CSE2 G04

CR/NC grading

- There is homework, but you should find it useful
- You will get from the class what you put into it

Class activities:

- lecture
- panels
- guest speakers
- Q&A sessions
- interactive activities (small group practice & role play)

# How To Get a PhD

A handbook for students and their supervisors

Estelle M. Phillips and Derek S. Pugh



Open UP Study Skills

## The Unwritten Rules of PhD Research

Second Edition

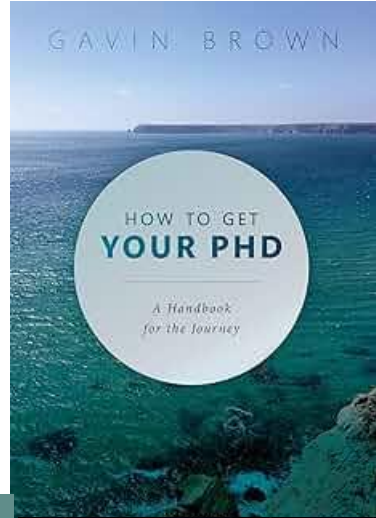


Marian Petre  
Gordon Rugg

GAVIN BROWN

## HOW TO GET YOUR PHD

A Handbook for the Journey

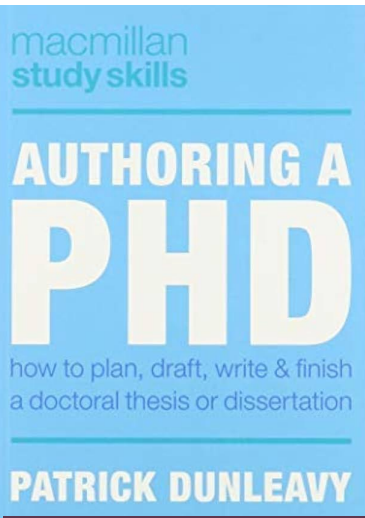


macmillan  
study skills

# AUTHORING A PHD

how to plan, draft, write & finish a doctoral thesis or dissertation

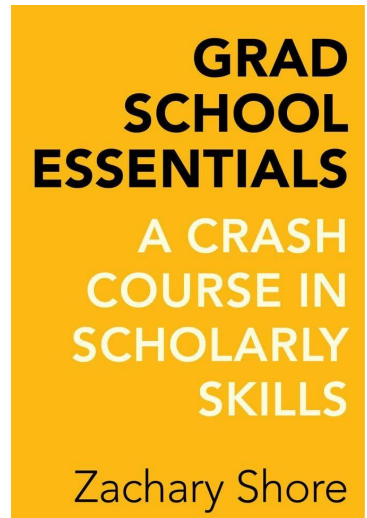
PATRICK DUNLEAVY



# GRAD SCHOOL ESSENTIALS

A CRASH COURSE IN SCHOLARLY SKILLS

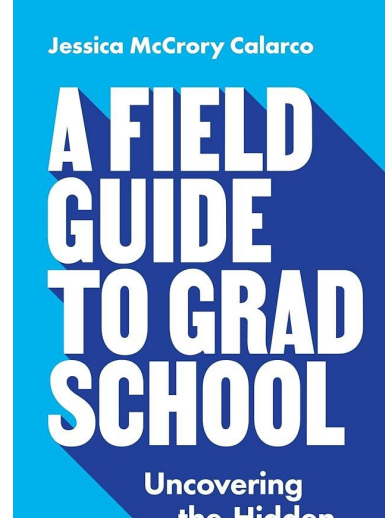
Zachary Shore



Jessica McCrory Calarco

# A FIELD GUIDE TO GRAD SCHOOL

Uncovering the Hidden



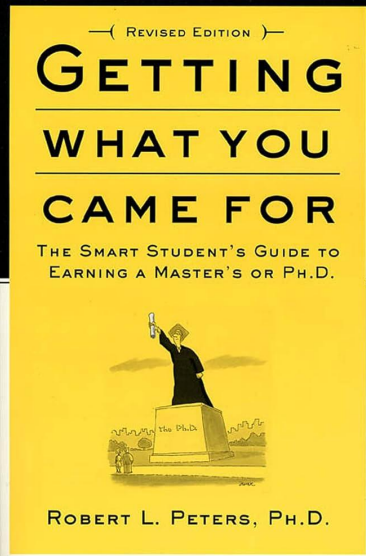
— REVISED EDITION —

# GETTING WHAT YOU CAME FOR

THE SMART STUDENT'S GUIDE TO EARNING A MASTER'S OR PH.D.



ROBERT L. PETERS, PH.D.



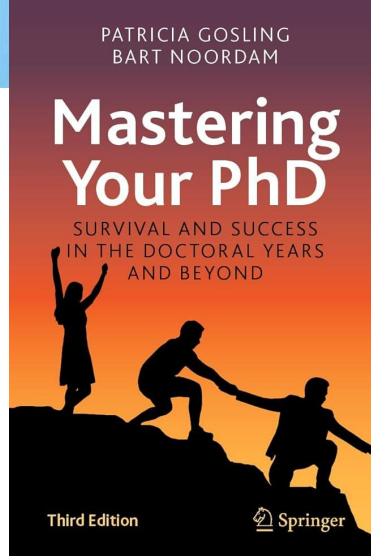
PATRICIA GOSLING  
BART NOORDAM

# Mastering Your PhD

SURVIVAL AND SUCCESS IN THE DOCTORAL YEARS AND BEYOND

Third Edition

Springer



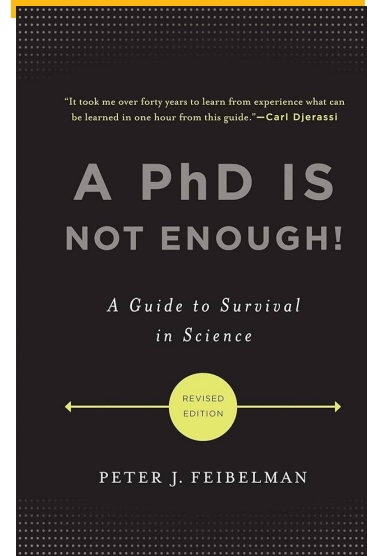
"It took me over forty years to learn from experience what can be learned in one hour from this guide."—Carl Djerassi

# A PhD IS NOT ENOUGH!

A Guide to Survival in Science

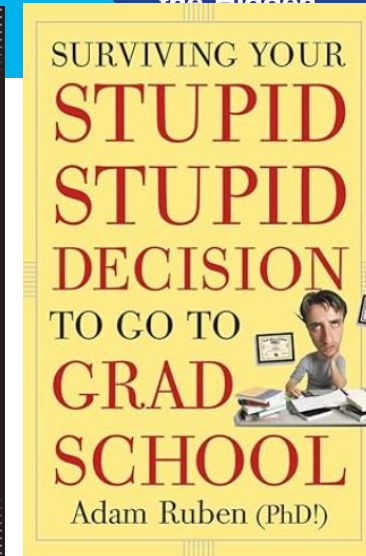
REVISED EDITION

PETER J. FEIBELMAN



# SURVIVING YOUR STUPID STUPID DECISION TO GO TO GRAD SCHOOL

Adam Ruben (PhD!)



# Writing

Writing a research paper

Editing and rewriting

How to read a research paper

Submitting a paper & logistics

Reviewing papers

Responding to reviews ("rebuttals")

Creating a poster

# Speaking

Writing talks

Presenting talks

Elevator pitches

# Pitching

Writing a personal statement

Writing a research proposal

Applying for funding

# Research projects

Choosing a research topic

Discovering your research personality and your secret weapon

Terminating a project

- how to fail fast
- perspective on project failure
- assessing progress



# Relationships

Managing your advisor

Networking

Advising (e.g., undergraduate students)

Running a research project

Attending conferences

# “Soft skills”

Time management, hard work, and work-life balance

Self-confidence, impostor syndrome, and rejection

Handling feedback

Procrastination; breaking researcher's block and writer's block; maintaining focus

Ethics in research & in society

# Careers

Whether and how to get an internship

Industrial and academic jobs

**Goal: be a better grad student than Mike was (low bar)**

Questions?