

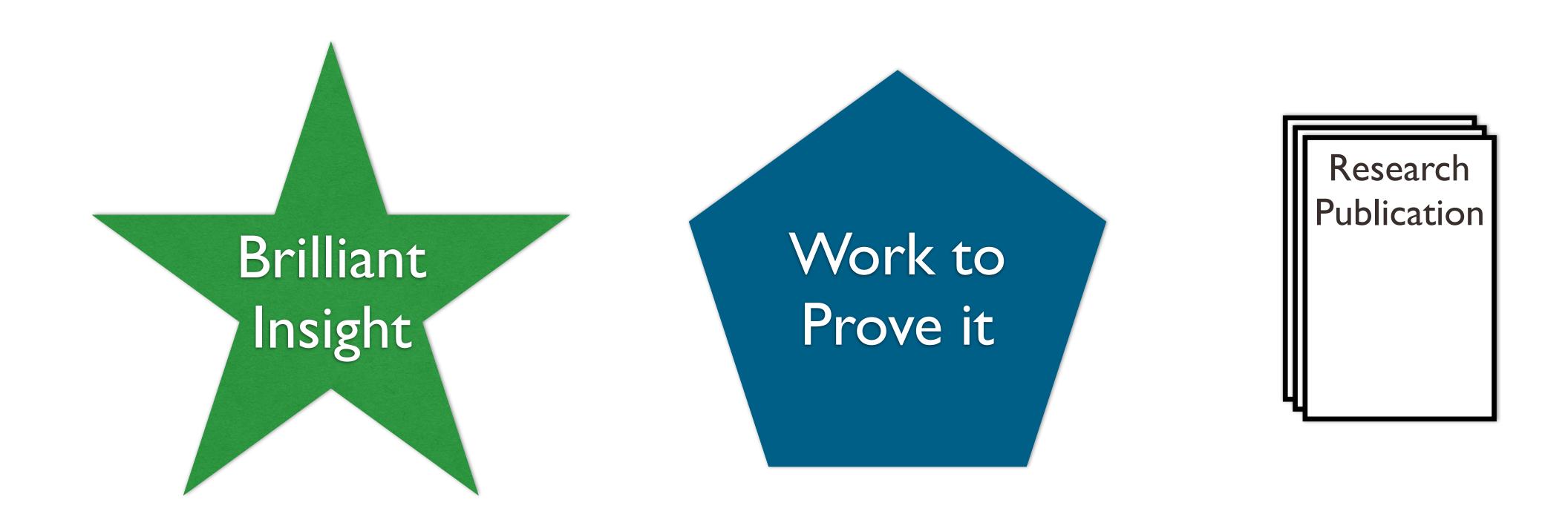
Being an Effective UTCS Graduate Student

John Thywissen • 22 Aug 2016

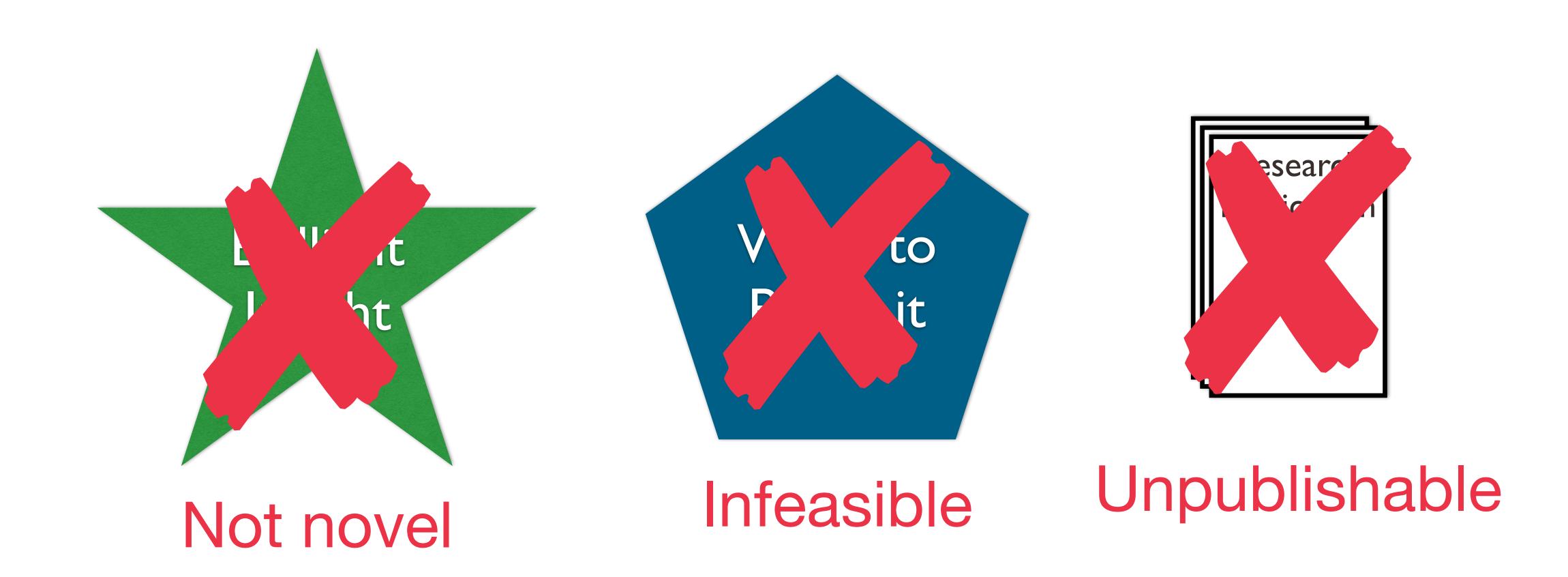
Begin at the End:

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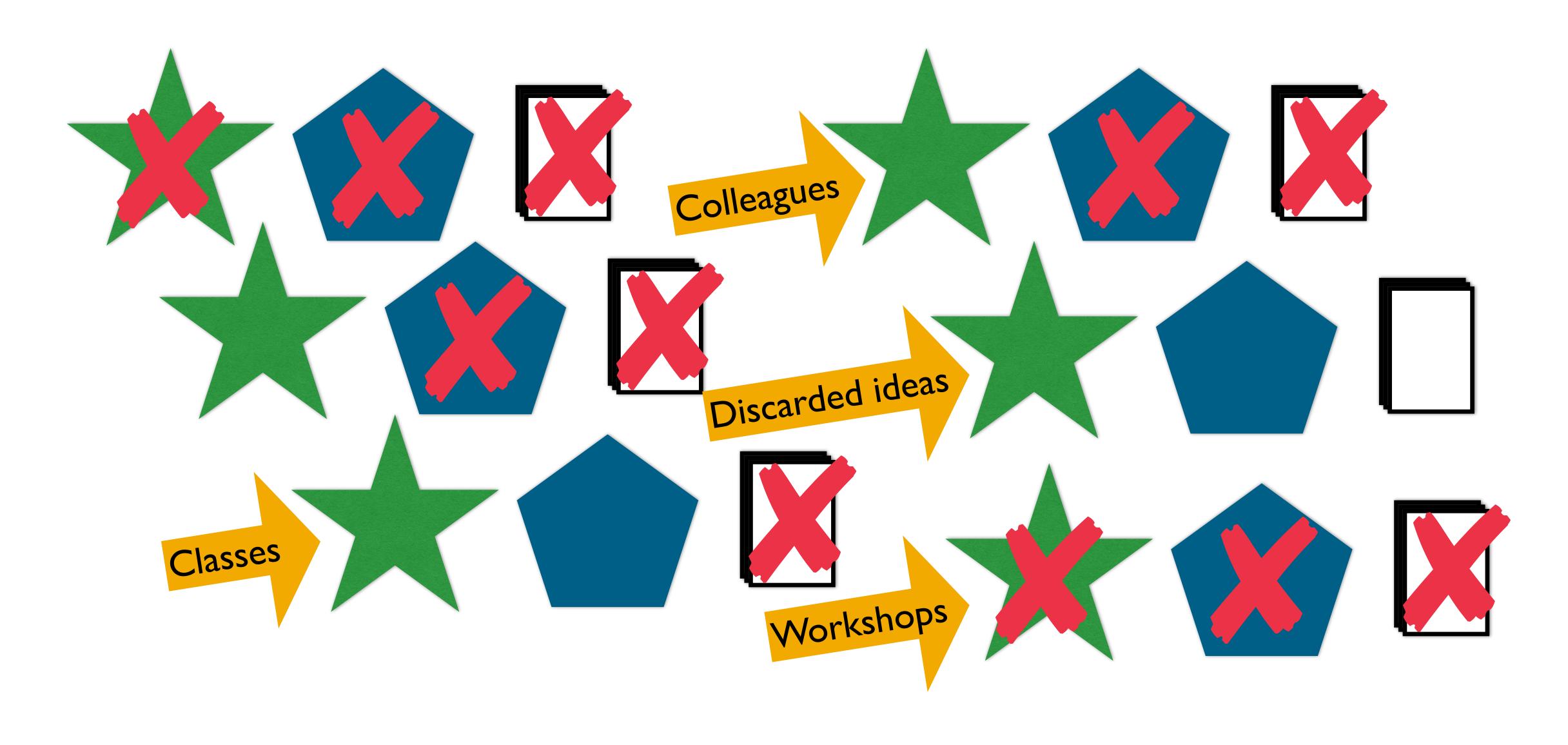
Idealized research process



Idealized picture is dangerously misleading



Research is a stochastic process



Listen: The World is Streaming Research Ideas at You

- Go to department talks.
- Join a reading group. Can't find a good one? Start one.
 - □ GRACS reading group list: http://wiki.cs.utexas.edu/gracs/ReadingGroups
- Participate in workshops.
- Skim though proceedings and magazines from ACM/IEEE/SIAM...

Foundations for Effectiveness: Six parts

- 1. Self-discipline
- 2. Skill and proficiency in processes and tools:
 - Task and time management
 - Academic writing and speaking
 - Development tools (for your area)
- 3. Self-awareness
- 4. Knowledge in area
- 5. Collaboration with fellow students and faculty
- 6. Effective use of group, UTCS and University resources

Time Management

Control your time

Eliminate distractions:

This requires both self-discipline and self-awareness: Decide: It's time to work, or it's time to play. Both are legitimate, but *decide consciously*.

Don't waste others' time

Be slightly early:

"If you're on time, you're late."

Track your time

		М	Т	W	R	F	S	N
07:12	M10							
08:00	M11							
08:48	M12							
09:36	M13							
10:24	M14							
11:12	M15							
12:00	M16		DLLunch					
12:48	M17	C S 105	PL Lunch	C S 105				
13:36	M18	Lecture &		Lecture &				
14:24	M19	Office hours		Office Hours				
15:12	M20				Research			
16:00	M21				Group Meeting			
16:48	M22			PHL 391				
17:36	M23							
18:24	M24							
19:12	M25							
20:00	M26							
20:48	M27							
21:36	M28							
22:24	M29							

Task Management

Get (or build) a process to track tasks.

Notes on scraps of paper will not work.

Leaving messages in your inbox will not work.

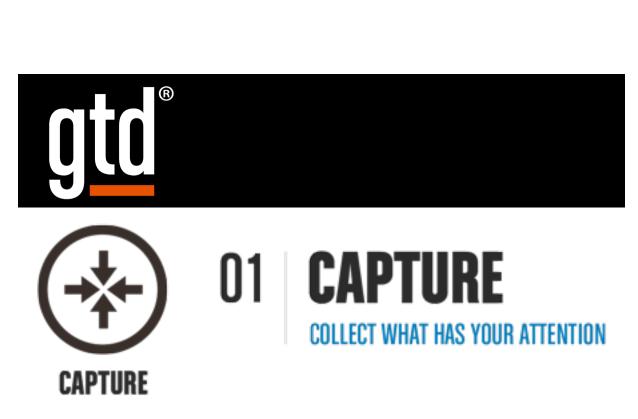
"Just remembering" will not work.

Your task management process:

- -Must be **reliable** enough that you can **trust** it, and
- -Must be **simple** enough that you use it **everyday**, and
- -Must be **scalable** enough to handle **multiple** simultaneous **projects**.

Suggestion: the GTD system by David Allen:

http://gettingthingsdone.com









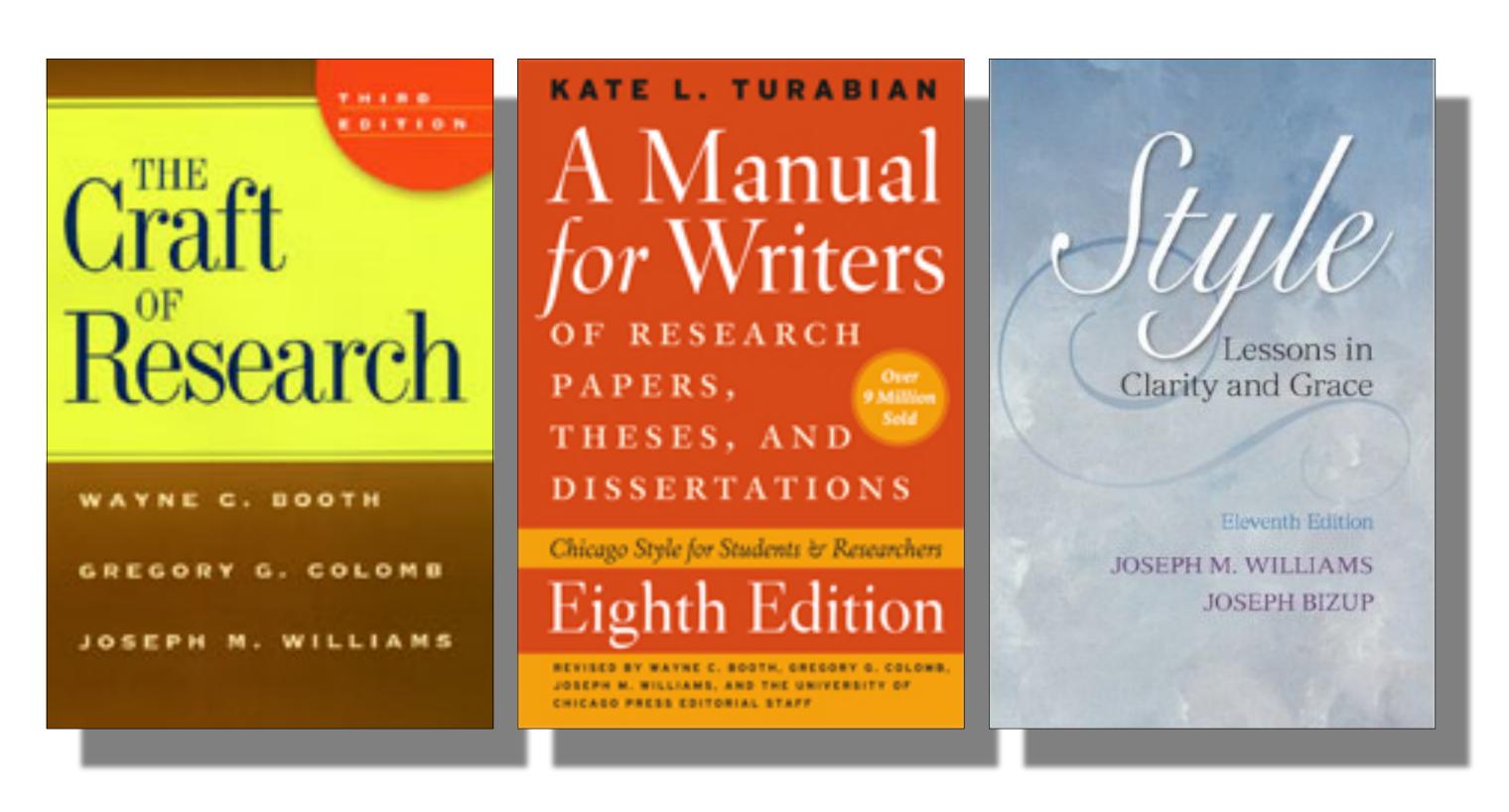


Academic Writing and Speaking

- -There are many books and talks on academic writing and speaking.
- -Get a few, read them, and then *practice*. This is a skill, so you must *do it* in order to learn it.
- -Take opportunities to write and speak. Ask for feedback from the readers/audience.
- -Tip: Track everything you've read in a citation manager (examples: Zotero or BibDesk).

Suggestions for books on writing:

- -The Craft of Research ISBN 0-226-06566-9 \$9
- -Turabian ISBN 0-226-81638-9 \$13
- -Style: Lessons in Clarity and Grace ISBN 0-321-89868-0 \$16

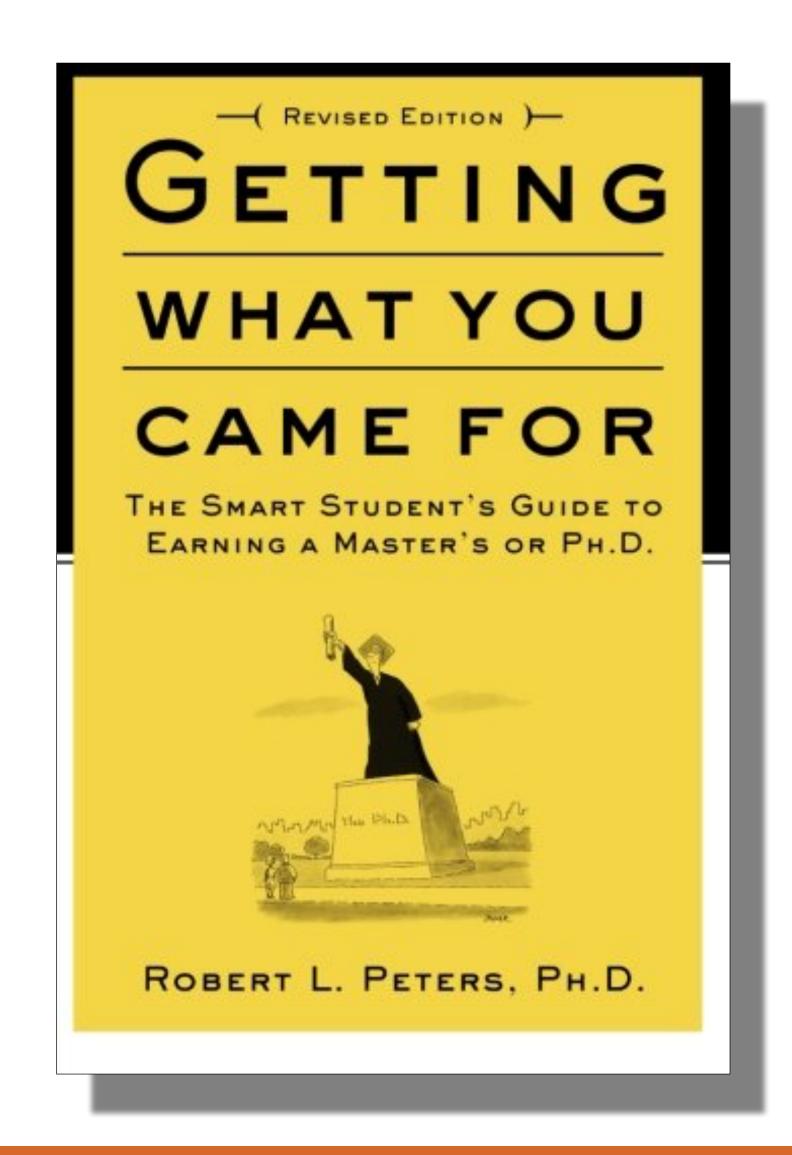


Collaboration with fellow students and faculty

- -Again, join (or start) a reading group in your interest area.
- -Go to research group meetings.
 - Use as speaking practice venue.
- -Faculty meetings: conference course/advisor meeting: Roughly 1 hour/week.
 - Agree on goals for the semester.
 - Use as a writing practice venue.

More advice

Peters, Robert L. *Getting What You Came For: The smart student's guide to earning a master's or Ph.D.* Revised ed. New York: Farrar, Straus and Giroux; 1997. 413 p. [Amazon \$12.] ISBN 0-374-52477-7



Being an Effective UTCS Graduate Student

Begin at the End

- Goal: Research publications
- Participate in research projects.
- Now. Not "real soon".
- Do not wait for the perfect research topic.
- Research is a stochastic process, so multiple "trials" of potential projects are essential.
- View classes as input for your research projects.
- Talk and listen: advisor, fellow students, workshops, other researchers, etc.

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