

THE NOTICES EARLY CAREER SECTION IDEAS FOR YEAR THREE

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PURPOSE

The *Early Career Section* is for graduate students, postdocs, job seekers, people navigating their way towards promotion and tenure, those who mentor them, and really for anyone thinking about issues surrounding careers in math. Each month we will consider different aspects of the profession, with articles written by mathematicians focused on a particular theme.

1. SCHEDULE AND THEMES FOR YEAR THREE, STARTING IN MARCH

(1) **February 2021: Diversity and Teaching**

(Reminder July 1 2020, Due September 1, 2020)

(2) **March 2021: Designing specific courses**

(Reminder August 1 2020, Due October 1, 2020)

(a) Operations Research (need author);

(b) Actuarial Math (need author);

(c) K-12 Practicum class (need author);

(d) Undergraduate research project class (Shahriar Shahriari);

(e) Class where students collaboratively solve a problem proposed by industry (need author);

(f) other ?

(3) **April 2021: Jobs in Business, Industry, and Government**

(Reminder September 1 2020, Due November 1, 2020)

(a) Transitioning to tech (Bastian Haase)

(b) Look for contributions from the people on the scientific board for IPAM, ICERM (and the other institutes);

(c) need volunteers and ideas

(4) **May 2020: Research**

(Reminder October 1 2020, Due Dec 1 2021)

(a) Tenure Diaries (Andrew Obus)

Date: August 3, 2020.

- (b) How to deal with failure working on a problem, deciding when to move on, and try to prove something new (Aaron Bertram);
- (c) Balancing a career while having young children (Sarah Rundell);
- (d) Mathoverflow;
- (e) Collaborations: How to start? What is the etiquette?;
- (f) What makes for interesting research?;
- (g) How do you get new ideas?
- (h) Maintaining research momentum during the early career years;
- (i) Good habits that lead to productivity in your research;
- (j) Imagine you have a time machine: Choices you make now that will help for a career at a research institution;
- (k) Research in teams;
- (l) How do you stay balanced or happy while your research is going slowly?

(5) June/July 2021: Publishing

(Reminders November 1 2020, December 1 2020, **Due January 1 2021**)

- (a) how to read the feedback, after being rejected (need author)
- (b) Advice on picking a journal;
- (c) Being a responsible referee (Asher Auel).
- (d) Reasons to write a book (Diana Gillooly, Cambridge University Press);
- (e) What happens to your paper, after it is submitted (Chuck Weibel);
- (f) Advice on picking a journal (need author);
- (g) Publishing with undergrads (Natalie Hobson and Jay Cummings).

(6) August 2021: Obtaining funding

(Reminder December 1 2020, Due February 1 2021)

- (a) Writing grant proposals, nuts and bolts (Max Lieblich)
- (b) Reading grant proposals (need author)
- (c) What are broader impacts? (need author)
- (d) The importance of citations (and other details that can make or break your proposal) (need author);
- (e) NIH, DOD, etc (need author);
- (f) Unexpected funding sources?
- (g) Why apply?: How writing a grant proposal can help your research (and other benefits like dissemination to the panelists) (Martin Olsson);
- (h) NSA funding is different than NSF funding (need author)
- (i) How can you get your conference funded?
- (j) AIM, Oberwolfach, etc: getting funded to work with collaborators in far flung locales;
- (k) Funding to get to do research with undergrads (taken)
- (l) Getting scooped, the research kind, not the fun ice cream kind (need author);

(7) **September 2021: Applications: For grad school, postdocs, tt jobs**

(Reminder January 1 2021, Due March 1 2021)

- (a) How to write a research statement for a liberal arts college job (need author);
- (b) How to write a research statement for a research job (need author);
- (c) How to write a teaching statement for a liberal arts college job (Jen Biermann);
- (d) How to write a teaching statement for a research job (need author);
- (e) Things to keep in mind when writing a diversity statement (need author);
- (f) How to deal with a terrible job market (need author);
- (g) Writing a effective letter of recommendation (need author);
- (h) Asking for letters of recommendation (need author);
- (i) Being on the hiring committee;

(8) **October 2021: Not so early career issues**

(Reminder February 1 2021, Due April 1 2020)

- (a) initiating department change (need author);
- (b) On the other side of tenure (need author);
- (c) Articles on how the department runs (The job of (a) graduate advisor; (b) undergrad advisor; (c) chair; etc) (need authors);
- (d) Disappointment (need author);
- (e) Is this where I am going to die? (need author).

(9) **November 2021: Math talks**

(Reminder March 1 2021, Due May 1 2021)

- (a) How to listen to a math talk (David Anderson);
- (b) How to be a good audience member (need author soon);
- (c) Delivering an excellent Colloquium or Seminar talk (Bianca Viray);
- (d) Job talks (need author);
- (e) Don't give a terrible talk (need author);
- (f) Every talk is a job talk (need author);
- (g) Talks about your work for a non-mathematical audience (need author).

(10) **December 2021: Best of**

(Reminder April 1 2021, Due June 1 2021)

need ideas