Mathematics Pedagogy Fellow

2021-2022

Main Projects

- MATH 300: Teaching Undergraduate Mathematics Seminar (TUMS)
- Workshop on MATH 99R (tutorials)

MATH 300: TUMS

What are the students taking MATH 300 like?

- From math student to math teacher teaching math (calculus, linear algebra) to non-math concentrators
- G-1's: mostly no prior experience as a section leader but some experience as a peer tutor, or a course assistant?

MATH 300: TUMS

Course Goal

- Be aware of the background of the audience
- Be comfortable in front of the audience
- Control the dynamics and tempo in the classroom

MATH 300: TUMS

Course structure

- Weekly meeting, led by two experienced preceptors and pedagogy fellow
- Topic oriented (First day of class, public speaking, question-oriented teaching, class choreography, body languages, experienced TF class observations, undergrad diversity and inclusivity, etc.)
- Three rounds of interactive micro-teaching at different stages of a course (first day, specific topic, student activity, etc.), with actual undergrad audience, video recordings, and synchronous topics with ongoing class!

MATH 99R: Teaching Tutorials

What are the undergrads taking MATH 300 like?

- Mostly math concentrators (junior or senior year)
- Want to learn interdisciplinary and fun topics that don't constitute a semesterlong course on its own

MATH 99R: Teaching Tutorials

Workshop on Tutorial

- Meet with DUS a brief intro of Tutorials (length, topics, proposal writing and submission)
- Logistics (Books? Online? Course structure? Syllabus creation? Homework? Grading?)
- Experienced TFs sharing their course plans & executions
- Q&A

Miscellaneous

- Coaching program & Apprenticeship
- Social gatherings in-person again! (Cookies & Fruits & Wine & Cheese)

Challenges & Ideas for Future

- Connecting with senior grad students
- More diverse math courses offered more diverse workshops and trainings?

Thanks for listening!