

Mathematics PF Capstone

2022-2023

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Main Projects

- **Math 300 (TUMS)**
- **“Teaching Tutorials (Math 99r)” panel**
- **Office hours, TF support**

TUMS (Teaching Undergraduate Mathematics)

- **G1 teaching training course**
 - Run by two experienced preceptors (Brendan Kelly, Robin Gottlieb) and PF
 - Mix of workshop, microteaching, and guest panels
- **PF assists with running & planning the lessons, microteaching meetings, inviting panelists**
- **Some takeaways:**
 - Importance of balancing overall teaching philosophy advice, practice, and specific logistics/organizational tips
 - Importance of reflective teaching practices

Teaching Tutorials (Math 99r) Panel

- **Panel about teaching Math 99r: Flexible, topics-oriented courses designed and taught by a grad student**
 - Often a way for undergrads to fulfill the expository writing requirement for the math major
 - Grad students submit proposals during the preceding spring semester
- **Assisted Prof. Cliff Taubes with organizing**
 - PF helps with logistics (setting time, panelists), as well as post-panel questions, giving proposal feedback
- **Takeaways:**
 - Follow-up questions tend towards specific syllabus/requirements advice, incorporating the expository component
 - Referencing previous tutorial data
 - Summer vs. term time tutorials

Supporting TFs and Teaching OH

- **TF office hours/question answering**
 - How to introduce certain concepts?
 - How does teaching calculus differ from other teaching jobs?
 - Summer teaching resources
- **Tech support for apprenticeships**
- **Organizing TUMS files**