REU: TENTATIVE GRADUATE STUDENT ASSIGNMENTS

The calendar of the program, with duties of undergraduates is:

Week 1 (June 23 – 27) Orientation and YSP training sessions
Week 2 (June 30 – July 3) YSP duties 9 a.m. - 2:30 p.m.
Week 3 (July 7 – 11) YSP duties 9 a.m. - 2:30 p.m.
Week 4 (July 14 – 18) YSP duties 9 a.m. - 2:30 p.m.
Week 5 (July 21 – 25) YSP duties 9 a.m. - 2:30 p.m.
Week 6 (July 28 – August 1) SESAME duties either morning or afternoon
Week 7 (August 4 – 8) SESAME duties either morning or afternoon
Week 8 (August 11 – 15)

Tentative assignments: feel free to complain or make alternative requests. There are many factors that may lead to later changes: attendance at the various courses, developing mentor relationships, DRP, etc.

From Mathematics:
*Mohammed Abouzaid [Farb–Hruska, May]
*Jayadev Athreya [Hruska, Constantin]
*David Balduzzi [Babai (weeks 1–4), Fefferman, Kirr, Santosa]
*Angela Barnhill [Herrmann]
*Andrew Blumberg [Fefferman, Santosa, May]
*Jeff Clouse [Fefferman, Kirr, Santosa, May]
*Jeremy Copeland [Babai, Constantin, Presentations]
*Matthew Day [Farb, May]
*Nick Gurski [Farb–Hruska, May, Lewicka]
*Gautam Iyer [Constantin, Lewicka]
*Sanjeevi Krishnan [fefferman, Kirr, Santosa, May]
*Craig Jackson [Farb–Hruska, Lewicka]
*Ben Lee [Herrman, Santosa, May]
*Sharon McCathern [Herrmann]
*Mridul Mehta [Kirr, Santosa, Babai (weeks 5–8)]
*Courtney Morris [Farb–Hruska, May, Presentations]
*Ann Scheels [Fefferman, Kirr, Santosa, Constantin]
*Kacey Walker [Herrmann, Santosa, Constantin, Presentations]
*Ben Wieland [Babai (weeks 5–8)]
*Dani Zarnescu [Constantin, Lewicka]

From Computer Science:
*Ivona Bezakova [Babai]
*Varsha Dani [Babai]
*Tom Hayes [Babai]
*Daniel Stefankovic [Babai]

List of courses with graduate student assignments:

1. DISCRETE MATHEMATICS, Laci Babai (weeks 1–8)

The first module (weeks 1–4) will focus on the interaction between linear algebra, combinatorics, and algorithms. The second module (weeks 5–8) will focus on combinatorial and algorithmic aspects of finite groups.

Ivona Bezakova, weeks 1–8
Varsha Dani, weeks 1–8
Tom Hayes, weeks 1–8
Daniel Stefankovic, weeks 1–8
David Balduzzi, weeks 1–4
Jeremy Copeland, weeks 1–4
Mridul Mehta, weeks 5–8
Ben Wieland, weeks 5–8

2 KNOTS and LINKS, Benson Farb (weeks 1–2), Chris Hruska (weeks 3–4)
Mohammed Abouzaid
Jayadev Athreya (weeks 3–4)
Matthew Day (weeks 1–2)
Nick Gurski
Craig Jackson
Courtney Morris

3. INTRODUCTION TO GROUPS AND GEOMETRY, Diane Herrmann (weeks 1–2)
Angela Barnhill
Ben Lee
Sharon McCathern
Kacey Walker

4. INVITATION TO PROBABILITY THEORY, Robert Fefferman (week 1)
David Balduzzi
Andrew Blumberg
Jeff Clouse
Sanjeevi Krishnan
Ann Scheels

5. TOPICS IN ODE'S, Eduard Kirr (week 2)
David Balduzzi
Jeff Clouse
Sanjeevi Krishnan
Mridul Mehta
Ann Scheels

6. MATHEMATICS IN INDUSTRIAL APPLICATIONS, Fadil Santosa (weeks 3–4)

David Balduzzi
Andrew Blumberg
Jeff Clouse
Ben Lee
Mridul Mehta
Sanjeevi Krishnan
Ann Scheels
Kacey Walker

7. FOLLOW UP ON AN INTIVATION TO PROBABILITY THEORY: MARKOV CHAINS, MARTINGALES, AND MORE ..., Peter Constantin (weeks 5–6)
Jayadev Athreya
Jeremy Copeland
Gautam Iyer
Ann Scheels
Kacey Walker
Dani Zarnescu

8. FINITE TOPOLOGICAL SPACES, Peter May (weeks 5–7)
Mohammed Abouzaid
Andrew Blumberg
Jeff Clouse
Matthew Day
Nick Gurski
Sanjeevi Krishnan
Ben Lee
Courtney Morris

9. INTRODUCTION TO TOPOLOGICAL DEGREE IN EUCLIDEAN SPACES, Marta Lewicka (weeks 7–8)
Nick Gurski
Gautam Iyer
Craig Jackson
Dani Zarnescu

10. STUDENT PRESENTATIONS (week 8)
Organizers:
Jeremy Copeland
Courtney Morris
Kacey Walker