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)
7. FOLLOW UP ON AN INITIATION 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