

Hao Huang

- CONTACT INFORMATION Department of Mathematics
UCLA, MS 3975 *Email:* huanghao@math.ucla.edu
Los Angeles, CA 90095-1555, USA *Homepage:* www.math.ucla.edu/~huanghao
- RESEARCH INTERESTS Extremal combinatorics, random structures, structural graph theory and theoretical computer science.
- EDUCATION **2007-now: University of California, Los Angeles, California, USA**
- Ph.D. Candidate in Mathematics (expected graduation date: June 2012).
Thesis Advisor: Professor Benjamin Sudakov
- 2003-2007: Peking University, Beijing, China**
- B.S., Mathematics, July 2007.
- PUBLICATIONS AND PREPRINTS
- A counterexample to Alon-Saks-Seymour Conjecture (with B. Sudakov), to appear in *Combinatorica*.
 - Bandwidth theorem for random graphs (with C. Lee and B. Sudakov), *Journal of Combinatorial Theory, Series B.*, 102 (2012), 14–37.
 - Quasi-randomness of graph balanced cut properties (with C. Lee), *Random Structures and Algorithms*, DOI: 10.1002/rsa.20384.
 - Nonnegative k -sums, fractional covers and probability of small deviations (with N. Alon and B. Sudakov), *Journal of Combinatorial Theory, Series B.*, 102 (2012), 784–796.
 - Large matchings in uniform hypergraphs and the conjectures of Erdős and Samuels (with N. Alon, P. Frankl, V. Rödl, A. Ruciński, B. Sudakov), *Journal of Combinatorial Theory, Series A*, 119 (2012), 1200–1215.
 - The size of a hypergraph and its matching number (with P. Loh and B. Sudakov), to appear in *Combinatorics, Probability and Computing*.
 - Large feedback arc sets, high minimum degree subgraphs, and long cycles in Eulerian digraphs (with J. Ma, A. Shapira, B. Sudakov and R. Yuster), submitted.
- TALKS
- Combinatorics Seminar, UCLA, Los Angeles, Feb 2011

- Combinatorics Seminar, UCSD, La Jolla, California, Oct 2011
- Lake Arrowhead Reunion Conference, Jun 2011
- 15th International Conference on Random Structures and Algorithms, Emory University, May 2011
- Algebra/Number Theory/Combinatorics Seminar, Claremont Colleges, May 2011
- AMS Spring Western Sectional Meeting, UNLV, Las Vegas, May 2011
- Combinatorics Seminar, UCLA, Los Angeles, Apr 2011
- ACO Seminar, Carnegie Mellon University, Dec 2010
- AMS Fall Western Sectional Meeting, UCLA, Oct 2010
- Discrete Math Seminar, San Marcos, Texas, Jul 2010
- SIAM Conference on Discrete Mathematics (DM10), Austin, Texas, Jun 2010
- Combinatorics Seminar, UCSD, La Jolla, California, May 2010
- Combinatorics Seminar, UCLA, Los Angeles, Apr 2010

HONORS AND
AWARDS

- UCLA Dissertation Year Fellowship, 2011–2012.
- Wang-Yang Academician Fellowship (2006–2007), China.
- Hosogoe Fellowship (2005–2006), China.
- Guanghua Fellowship (2004–2005), China.
- Freshman Fellowship (2003–2004), China.
- Prizes in ACM/ICPC programming contest, 2004–2005.
- Silver and gold medalist at the 2002, 2003 Chinese Mathematical Olympiad.

CONFERENCE
ATTENDED

- Memphis-Budapest Summer School in Combinatorics, Budapest, Aug 2011
- IPAM Reunion Workshop, Lake Arrowhead, Jun 2011
- 15th International Conference on Random Structures and Algorithms, Emory University, May 2011
- AMS Spring Western Sectional meeting, UNLV, Apr 2011
- Hypergraph Turán problem workshop, AIM, Mar 2011
- AMS Fall Western Sectional meeting, UCLA, Oct 2010
- SIAM conference on Discrete Mathematics, Austin, Jun 2010
- Combinatorics: Methods and Applications in Mathematics and Computer Sciences, IPAM, Sep–Dec 2009

TEACHING
EXPERIENCE

UCLA Department of Mathematics, Los Angeles, CA, USA
Teaching Assistant

- Math 133: Introduction to Fourier Analysis, Spring 2010
- Math 132: Complex Analysis for Applications, Winter 2011
- Math 180: Combinatorics, Fall 2010
- Math 133: Introduction to Fourier Analysis, Spring 2010
- Math 132: Complex Analysis for Applications, Winter 2010
- Math 132: Complex Analysis for Applications, Fall 2009
- Math 32A: Calculus of Several Variables, Spring 2008
- Math 113: Combinatorics, Winter 2008

SERVICE

Referee for the following journals:

- *Discrete Mathematics*
- *Journal of Combinatorial Theory, Series A*
- *Journal of Combinatorics*
- *Journal of Graph Theory*
- *SIAM Journal on Discrete Mathematics.*