

# DAVID K. GOLDENBERG

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## EDUCATION

**Yale University**, New Haven, CT

Ph.D., Computer Science, June 2006

- *Dissertation*: “Fine-Grained Localization in Sensor and Ad-Hoc Networks”
- *Advisor*: Prof. Y. Richard Yang

M.Phil., Computer Science, 2004

M.S., Computer Science, 2003

**Rutgers University**, New Brunswick, NJ

B.A., Mathematics, Physics, and Computer Science, May 2000

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## PROFESSIONAL EXPERIENCE

**Credit Suisse Securities**, New York, NY

*Associate, Fixed Income Sales and Trading, Synthetic CDO Desk*, July 2006 – Present

**Credit Suisse First Boston**, London, UK

*Quantitative Summer Institute Intern*, Summer 2005

- Completed Global Modeling and Analytics Group training course.
- Spent time on rotation at various Fixed Income trading desks.

**Telcordia Technologies Applied Research**, Morristown, NJ

*Summer Intern*, Summer 2001

- Designed and built a secure multimedia multicast conferencing system for a DARPA funded secure networking project.
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## ACADEMIC EXPERIENCE

**Yale University**, New Haven, CT

*Teaching Fellow*, 2003-2006. Courses:

- Great Ideas in Computer Science, Prof. Stanley Eisenstat, Spring 2006
- Applied Mathematics II: PDEs and Variational Calculus, Prof. Boaz Nadler, Spring 2005
- Introduction to Programming, Prof. Zhong Shao, Fall 2004
- Mobile Computing and Wireless Networks, Prof. Y. Richard Yang, Spring 2004
- Theory of Distributed Systems, Prof. Arvind Krishnamurthy, Fall 2003
- Data Structures and Programming Techniques, Prof. Stanley Eisenstat, Spring 2003

**Silliman and Branford Colleges, Yale University**, New Haven, CT

*Math and Science Tutor*, 2004-2006

- Tutored students in Mathematics, Statistics, Physics, and Computer Science.

**Kaplan**, New Haven, CT

*Instructor: GRE preparation course*, 2002-2003

**Rutgers School of Engineering**, Piscataway, NJ

*Various Academic Positions*, 1997-2001

- Over four years, held the positions of tutor, head tutor, recitation instructor, instructor, and residential counselor in a summer scholarship program for underprivileged students interested in studying science and engineering.
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## PUBLICATIONS

- *Rigidity, Computation, and Randomization in Network Localization*, with T. Eren, W. Whiteley, Y.R. Yang, A.S. Morse, B.D.O. Anderson, and P.N. Belhumeur. Appeared in *Proceedings of IEEE Infocom 2004*, Hong Kong, China, March 2004 [acceptance rate 18%].
- *Towards Mobility as a Network Control Primitive*, with J. Lin, A.S. Morse, B. Rosen, and Y.R. Yang. Appeared in *Proceedings of ACM Mobihoc 2004*, Tokyo, Japan, May 2004 [acceptance rate 10%].

- *On the Computational Complexity of Sensor Network Localization*, with J. Aspnes, and Y.R. Yang. Appeared in *Proceedings of Algosensors 2004*, Turku, Finland, July 2004 [acceptance rate 40%].
- *Optimizing Cost and Performance for Multihoming*, with L. Qiu, H. Xie, Y.R. Yang, and Y. Zhang. Appeared in *Proceedings of ACM Sigcomm 2004*, Portland, Oregon, August 2004 [acceptance rate 9%].
- *Localization in Partially Localizable Networks*, with A. Krishnamurthy, W. Maness, Y.R. Yang, and A. Young. Appeared in *Proceedings of IEEE Infocom 2005*, Miami, FL, March 2005 [acceptance rate 17%].
- *A Theory of Network Localization*, with J. Aspnes, T. Eren, A.S. Morse, W. Whiteley, Y.R. Yang, and P.N. Belhumeur. To appear in *IEEE Transactions on Mobile Computing*, July 2006.
- *Precise Localization in Sparse Sensor Networks*, with P. Bihler, M. Cao, J. Fang, Y.R. Yang, A.S. Morse, and B.D.O Anderson. To appear in *Proceedings of ACM Mobicom 2006*, Los Angeles, CA, Sept 2006 [acceptance rate 11%].
- *Graphical Properties of Easily Localizable Sensor Networks*, with B.D.O. Anderson, P.N. Belhumeur, T. Eren, A.S. Morse, W. Whiteley, and Y.R. Yang. Under review.

ACADEMIC  
ACHIEVEMENT

- National Science Foundation Graduate Research Fellowship, 2001-2005, 17% award rate, approximate value: \$100,000
- Yale University Graduate Fellowship, 2000-2006
- Matriculated in University at age 14, graduated with triple major at age 19
- Dean's list for 3.9 GPA over final five undergraduate semesters
- 99<sup>th</sup> percentile GRE score: Analytical 800, Quantitative 800, Verbal 690

SKILLS AND  
ACTIVITIES

*Programming/Computer:* Java, C, C++, C#, Perl, ML, LaTeX, Microsoft Office  
*Activities:* Yale Triathlon, Cycling, and Muay Thai Clubs, Trumbull College Graduate Affiliate 05/06  
*Gaming:* Minesweeper (PR: 62 seconds)  
*Languages:* Japanese (sub-fluent but advanced)  
*Interests:* Birdwatching, Motorcycling  
*Arts:* Piano Performance