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Personal: U. S. citizen. Born October 28, 1962, England.
Married to Nancy Pearson; two children, Zoe (age 17) and Zander (age 14).

Education:

1989 Ph.D. Physics, *The University of Michigan*, Ann Arbor, MI.
Pattern Formation Far From Equilibrium in the Electrochemical Deposition of Metals
Advisors: Roy Clarke and Leonard M. Sander
1984 A.B. magna cum laude Physics, *Harvard College*, Cambridge, MA

Employment History:

2014- Director, Center for Soft Matter Research, *New York University*
2003- Professor of Physics, *New York University*, Center for Soft Matter Research
2005-2013 Chair, Department of Physics, *New York University*
2010 Chaire Michelin de Physique, *Ecole Supérieure de Physique et de Chimie Industrielles*, Paris
2009 Visiting Professor, *Ecole Supérieure de Physique et de Chimie Industrielles*, Paris
2003-2004 Director, Center for Soft Matter Research, *New York University*
2002-2003 Professor of Physics, *The University of Chicago*, James Franck Institute and Institute for Biophysical Dynamics
1997-2002 Associate Professor of Physics, *The University of Chicago*, James Franck Institute and Institute for Biophysical Dynamics
1992-1997 Assistant Professor of Physics, *The University of Chicago*, James Franck Institute
1989-1991 Postdoctoral Fellow, *AT&T Bell Laboratories*, Department of Condensed Matter Physics. Advisor: Cherry A. Murray

Selected Honors:

- Member at Large, American Physical Society, Division of Condensed Matter Physics (elected 2014).
- Fellow of the American Physical Society, *Division of Condensed Matter Physics* (2013).
- Golden Dozen Award for Outstanding Undergraduate Teaching, *New York University* (2013).
- American Physical Society Outstanding Referee (2013).
- World Economic Forum Technology Pioneer (2005).
- Scientific American 50 Award (2003).
- R&D 100 Award for the BioRyx™ 200 system (2002).
- The Llewellyn John and Harriet Manchester Quantrell Award, *The University of Chicago* (2000).
- Top 20 Scientists Under 40, *Discover Magazine* (October 2000).
- Conference Chair, Fall Meeting of the Materials Research Society (1999).
- Conference Chair, Gordon Research Conference on Condensed Matter Physics (1999).
- David and Lucile Packard Fellowship for Science and Engineering (1994-1999).
- Project Kaleidoscope Fellowship for Excellence in Science Education (1998-2002).
- Rackham Fellowship, *The University of Michigan* (1988-1989).
- Physical Sciences Fellowship, *The University of Michigan* (1987-1988).
- University Award for Academic Excellence, *The University of Michigan* (1985-1989).

Selected Professional Activities:

Editorial Board: Physical Review E (starting 2014).

Founder: Spheryx, Inc. Holographic particle characterization (founded 2014).

Chair: Scientific Advisory Board, Spheryx, Inc. (starting 2014).

co-Director: NYU Materials Research Science and Engineering Center (starting 2014).

Founding Member: New York State Consortium on Complex Light.

Moderator: <http://arxiv.org/>: Soft matter; Disordered systems and neural networks (starting 2004).

International Program Committee: *Complex Light and Optical Forces*, SPIE Symposium (starting 2006)

Founder: Arryx, Inc. (<http://arrayx.com/>). Holographic optical trapping systems (founded 2000).

Chair: Scientific Advisory Board, Arryx, Inc. (2000-2007).

Chair: ACS Colloid and Surface Science Symposium (2001).

Member: College Council of The University of Chicago (1999-2002).

Chair: NASA SCR and RDR Science Review Panels: PHASE-II (1996, 1998, 2000, 2013).

Former Postdocs: (7)

7. Hagay Shpaysman (Professor of Chemistry, Bar-Ilan University)
6. Fook Chiong Cheong (Chief Technical Officer, Spheryx),
5. Yohai Roichman (CEO, Reltyx Holdings),
4. Yael Roichman (Professor of Chemistry, Tel-Aviv University),
3. Matthew Pelton (Argonne National Laboratory),
2. Sven H. Behrens (Professor of Chemical Engineering, Georgia Tech),
1. Xiangdong Shi (China Polymetallic Mining, Ltd.)

Doctoral Students: (24)

24. Chen Wang (Ph.D. Physics, 2017: IBM)
23. Daniel J. Evans (Ph.D. Physics, 2016)
22. Henrique W. Moyses (Ph.D. Physics, 2016: Anheuser-Busch)
21. David Ruffner (Ph.D. Physics, 2015: Chief Scientific Officer, Spheryx)
20. Bhaskar Krishnatreya (Ph.D. Physics, 2014: Staff Scientist, Intel)
19. Lisa Dixon (Ph.D. Physics, 2013: Senior Design Engineer, ASML, Inc.)
18. Ke Xiao (Ph.D. Physics, 2010; Senior Scientist, Nanometrics, Inc.)
17. Bo Sun (Ph.D. Physics, 2009; Professor of Physics, Oregon State University)
16. Marco Polin (Ph.D. Physics, 2007; Professor of Physics, University of Warwick, UK)
15. Sanghyuk Lee (Ph.D. Physics, 2007; Professor of Biophysics, Rutgers)
14. Kosta Ladavac (Ph.D. Physics, 2005; Senior Scientist, E-Ink Corporation)
13. Brian Koss (Ph.D. Chemistry, 2004; Freelance science educator)
12. Steven Sundbeck (Ph.D. Physics, 2004; Senior Scientist, Shafer Corporation)
11. Yilong Han (Ph.D. Physics, 2003; Professor of Physics, HKUST)
10. Jennifer E. Curtis (Ph.D. Physics, 2002; Professor of Physics, Georgia Tech)
9. Pamela T. Korda (Ph.D. Physics, 2002; Statistician, HERE Maps at Nokia)
8. Joseph Plewa (Ph.D. Physics, 2001; Director of Development, Haemonetics)
7. Eric R. Dufresne (Ph.D. Physics, 2000; Professor of Materials Science, ETH Zurich)
6. Chorng-Haur Sow (Ph.D. Physics, 1998; Professor of Physics, National University of Singapore)
5. Jessica A. Goldberg (Weiss) (Ph.D. Chemistry, 1997; Unilever R&D)
4. Kristin M. Abkemeier (Ph.D. Physics, 1997; Senior Systems Analyst, Fu Associates)
3. Juan K. Lin (Ph.D. Mathematical Physics, 1997; Chief Scientist, SearchForce)
2. John C. Crocker (Ph.D. Physics, 1996; Professor of Chemical Engineering, University of Pennsylvania)
1. Amy E. Larsen (Ph.D. Physics, 1996; Professor of Physics, St. Olaf College)