

DAVID AUERBACH, B.A., M.S., PH.D.

(310) 954-7102

dave.auerbach@gmail.com

- Education** **University of California, Los Angeles**
M.S. (March 2006), Ph.D. (December 2011) in Plasma Physics,
Graduate Research Advisor: Dr. Troy Carter
- Swarthmore College**
B.A. *Magna Cum Laude* in Physics with minor in Psychology, June 2001
Honors Thesis Title: *Ion Temperature Measurements in SSPX*
Undergraduate Thesis Advisor: Dr. Michael Brown
- Experience**
- | | |
|--|--------------------------|
| Senior Scientist-Blindsight Corporation | March 2012 to Present |
| Graduate Student Researcher-Carter Lab, UCLA | Jan 2006 to Dec 2011 |
| Graduate Student Researcher-Joshi Group, UCLA | March 2005 to Dec 2005 |
| Teaching Fellow-UCLA Physics and Astronomy | Fall 2004 to Spring 2010 |
| Research Assistant-Lawrence Berkeley National Lab | June 2002 to Dec 2002 |
| Research Assistant-Lawrence Livermore National Lab | Summers 2000,2001 |
- Awards & Honors**
- | | |
|--|-----------|
| UCLA Graduate Research Mentorship Fellowship | 2006-2007 |
| GAANN fellowship, UCLA | 2004-2005 |
- Publications**
- D. W. Auerbach, T. A. Carter, S. Vincena, and P. Popovich, "Resonant Drive and Nonlinear Suppression of Gradient-Driven Instabilities Via Interaction with Shear Alfvén Waves," *Physics of Plasmas*, Vol. 18, No. 5, 2011
- D. W. Auerbach, T. A. Carter, S. Vincena, and P. Popovich, "Control of Gradient-Driven Instabilities Using Shear Alfvén Beat Waves," *Physical Review Letters*, Vol. 105, No. 13, 2010
- T.A. Carter, B.T. Brugman and D.W. Auerbach, "Studies of large amplitude Alfvén waves and wave-wave interactions in a laboratory plasma," *AIP Conference Proceedings*, Vol. 932, 2007
- Oz, E., et al., "Ionization-Induced Electron Trapping in Ultrarelativistic Plasma Wakes," *Physical Review Letters*, Vol. 98, No. 8, 2007
- Leemans, W. P., et al., "Observation of Terahertz Emission from a Laser-Plasma Accelerated Electron Bunch Crossing a Plasma-Vacuum Boundary," *Physical Review Letters*, Vol. 91, No. 7, 2003
- Presentations**
- APS DPP 2010 - Invited Talk, "Control of pressure-gradient-driven instabilities using shear Alfvén Beat-Waves"
- TTF2010 - Contributed Talk
- APS DPP 2006-2009 - Contributed Posters