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Matthew Weed

PhD in optics, with experience in public policy and leadership

Dec 2012 (expected)	PhD in optics	GPA 3.72	University of Central Florida
Dec 2009	MS in optics	GPA 3.78	University of Central Florida
May 2007	BS in physics	GPA 3.89	Rensselaer Polytechnic Institute

Research

University of Central Florida

2007-present

As graduate research assistant to Dr. Winston V. Schoenfeld (CREOL), I currently

- design and simulate integrated photonic devices analytically and numerically,
- fabricate micro- and nanoscale semiconductor structures in clean rooms,
- image devices using optical, electron, and atomic-force microscopy,
- optically characterize microscale devices and thin films.

Rensselaer Polytechnic Institute

2006-2007

AS undergraduate research assistant to Dr. Peter Persans (Physics), I characterized thin film CIGS photovoltaic cells by photoreflectance modulation spectroscopy.

2003-2007

In the Lally School of Management & Technology, I completed 32 credit hours of coursework in management, economics, finance, and marketing.

Kollmorgen Electro-Optical (Northhampton, MA)

Summer 2006

As a systems engineer co-op, I developed quantitative, image-resolution benchmarks across business units for naval periscopes.

Public Policy

The Optical Society (OSA)

2012-2014

As a member of the Public Policy committee, I guide the advocacy effort of the internation optics community, and I generate policy statements for immigration, natural resource management, and journal open access.

2012

On the Harnessing Light II committee, I advise a joint OSA, SPIE, APS and IEEE team on the dissemination of the National Academy of Science's report, Optics and Photonics: Essential Technologies for Our Nation.

2010-2012

Under Federal Science Funding Advocacy, I establish and maintain relationships with House and Senate offices from Florida and Oregon to relay the importance of consistent federal funding of research and commercialization.