

# ALEX SPATZIER

## EDUCATION

**OBERLIN COLLEGE** . Ohio . May 2012

BA with double major in Mathematics and Physics.

Robert Weinstock prize for academic excellence in Physics, May 2011.

Herbert Rinehart Memorial Scholarship, fall 2010 through spring 2012.

## PUBLISHED WORK

TRACING HIGH-ENERGY RADIATION FROM T TAURI STARS USING MID-INFRARED NEON EMISSION FROM DISKS, C. Espaillat, L. Ingleby, E. Furlan, M. McClure, A. Spatzier, et. al., 2013, THE ASTROPHYSICAL JOURNAL, 762, 62. (<http://adsabs.harvard.edu/abs/2013ApJ...762...62E>)

## WORK & EXPERIENCE

**PRINCETON UNIVERSITY & SITU STUDIO** . Princeton, NJ . February 2013 - Present

Laboratory Scientist & Research Staff. Working with Princeton Geology Professor Adam Maloof and Situ Studio (Brooklyn, NY) on GIRI, a National Science Foundation funded interdisciplinary research project involving 3D imaging and scanning of fossils.

**HARVARD SMITHSONIAN CENTER FOR ASTROPHYSICS** . Cambridge, MA . Summer 2011

Summer Intern. Researched planetary formation using two space observatories.

Authored research report, gave two talks, and presented results at the 2012 American Astronomy Society Meeting in Austin, Texas.

**OBERLIN PHYSICS DEPARTMENT** . Ohio . January 2010 - May 2011

Research Assistant in pulsar astrophysics. Observed with Arecibo Radio Telescope.

Presented at UBC in Vancouver and the 2011 AAS Meeting in Seattle, WA.

**LEIDEN UNIVERSITY** . Netherlands . Summer 2010

Summer Research Assistant for Oberlin Prof. Dan Stinebring. Researched gravitational waves and pulsars. Designed computational simulations and data analysis software.

**DAVID MILLING ARCHITECTS** . Ann Arbor, MI . Summer 2009

Summer Architectural Intern. Designed and built DMA's website DMAA.com to fit the firm's image, objectives, and potential clients.

Worked closely with David Milling (AIA, LEED AP) and Eric Hartz (assoc. AIA, LEED AP) to create and publish Requests for Proposals and Qualifications. Helped assemble design proposals. Edited CAD drawings for inclusion into marketing materials and proposals.

Edited and curated hundreds of images, scanning slides and collating the firms portfolio of work.

**INTENSIVE ARCHITECTURE STUDIO – OBERLIN WINTER TERM** . Ohio . January 2009

Completed introductory studio architecture class. Designed a house based on a variety of theoretical sub-projects. Learned 3D modeling, basic hand drafting, and architectural design with daily critiques. Taught by Architect Jesse LeCavalier (Prof. NJIT) and Oberlin Architecture History/Theory Professor John Harwood.

**PHOTOGRAPHER OBERLIN COLLEGE ATHLETICS** . Ohio . August 2008 - May 2010

Sports Photographer, part time. Covered events providing action photography and photojournalism. Edited images for the web, print, and the student newspaper.

**TUTOR & GRADER OBERLIN COLLEGE** . Ohio . September 2009 - December 2011

Tutored and graded students in Politics, Physics, Math, and Computer Science.

SKILLS

**COMPUTING**

Photoshop, Illustrator, In Design, SketchUp, FormZ, Rhino, Mathematica, IDL, Matlab, standard office applications. Mac, PC, Linux, and UNIX.

**WEB DESIGN**

Designed and engineered websites for over six years using HTML, CSS, JavaScript, and various server side scripting languages (see DMAA.com and SPATZIER.com). Familiar with server management, web hosting, and content management systems.

**GRAPHIC DESIGN & PHOTOGRAPHY**

Designed graphics for academic papers, presentations, student groups, and various student organizations. Experienced in creating infographics and charts. Skilled in digital image manipulation with over eight years of photoshop experience. Portfolio included.

**PROGRAMMING**

HTML+CSS, JavaScript, PHP, Perl, LaTeX, JAVA, C, Arduino, Python, Mathematica, IDL.

**ELECTRONICS**

Familiar with analog electronics, circuit design, soldering, embedded microprocessor programming, specifically the Arduino prototyping platform.

**RENOVATION & CONSTRUCTION**

For six years I have been assisting with remodeling an old house, learning everything from carpentry and drywalling to plumbing and electricity and landscaping too.

**LANGUAGES**

Bilingual in German and English.