

Philip Lloyd Kahn

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Education

B.A., University of California at Berkeley.
Astrophysics

8/2004-5/2008

Publications

Estimation of Diplodocid length for fragmentary fossils with a 'suspension bridge' (zero-torque) model.
Preprint available upon request.
Status: Submitted to *Journal of Vertebrate Paleontology* for review, edits pending prior to peer review.
(Manuscript ID: JVP-2009-0013)

Speaking Events

The physics around and observational effects of black holes.
Tri-Valley Stargazers & Astronomical Society. 2/20/2009.

Research & Lab Experience

Curatorial June 2013-Present
Work sorting and cataloging the UC Museum of Vertebrate Zoology's reptile and amphibian collection.

Prep Lab 2010-Present
Working at the UC Museum of Vertebrate Zoology's Prep Lab to prepare museum-grade research specimens.
In spring 2012, began instructing the undergraduate Prep Lab Class.

Personal Research 2009-Present
Long-term project to compile phylogenies across peer-reviewed papers for all extant coelomate taxa to family or better, and with notable extinct taxa.

Personal Research 2007-Present
An ongoing research project to describe diplodocid dinosaurs via a low-order polynomial equation with minimal free variables. Initial publication draft submitted 01/2009 to JVP. Editor review passed, edits requested before peer review. Advised by Kevin Padian and Matt Wedel.

Research Assistant 2007-2008
Worked on image segmentation and stellar modeling to predict solar luminosity via magnetogram images for use in the Kepler program. Research Advisor & Director: Gibor Basri

UC Berkeley Radio Astronomy Laboratory Spring 2008
One semester of radio astronomy work, including but not limited to interferometry, signals analysis, and galactic mapping.

UC Berkeley Vertebrate Paleontology Laboratory Spring 2007
One semester of comparative vertebrate paleontology, which along with teaching work provides basis for comparative vertebrate anatomy and handling of fossils / museum-grade casts.

UC Berkeley Undergraduate Physics Labs 2004-2007
Three semesters of general physics labs, one semester of basic semiconductors, and one semester of advanced physics labs (including muon decay, the Josephson Effect, and atomic physics).

UC Berkeley Undergraduate Chemistry Labs 2004-2005
Two semesters of advanced general chemistry labs, including, but not limited to, transition metal chemistry and an individual project on the effect of various chemicals on hemoglobin.

Teaching Experience

30-Day Emergency Substitute Teaching Credential

Issued 12/12/2008, Recieved 2/20/2009, #090031866

CBEST, 11/2008

Score: 203 (Passed).

Lecturer, “Democratic Education at Cal” (DeCal) program.

Raptors and Sea Monsters: A survey course on Mesozoic marine reptiles and saurischia

Taught Saurischia with original curriculum and materials.

Lecture material online at <http://decal.revealedsingularity.net>.

Fall 2007, Spring 2008.

Teacher, “Adapt or Die”/ “Life Through Time”, Lawrence Hall of Science.

Extensively rewrote curriculum, taught one session. Co-taught another session. Taught children about evolution, adaptations, and phylogenetics. Grades 4–6.

Summer 2008 & Summer 2009.

Teacher, “Electronic Gadgetry”, Lawrence Hall of Science.

Taught one two-week session, assisted in a second session. Taught kids about circuitry, electricity, and magnetism. Grades 5–7.

Summer 2008 & Summer 2009.

Teacher, “Lego Technology”, Lawrence Hall of Science.

Taught one two-week session, assisted in a second session. Taught children about engineering, gearing ratios, and basic programming structures such as IF-ELSE, WHILE, and FOR. Grades 5–7.

Summer 2009.

Technical Expertise

Software: MS Office 1997–2013 (Word, Excel, PowerPoint, Outlook), 3DS MAX 4.0–6.0, Flash 4–2004, Adobe Photoshop 5.5–C65, Adobe Illustrator CS4–CS5.5, Adobe Premiere 7–CS5.5, virtual machines, & the use of various alternative F/OSS solutions.

Operating Systems: Windows 95–Windows 8, Mac OSX, Linux (GNOME and KDE based distributions) & associated programs (eg, Emacs or Vi).

Extensive experience in statistical error analysis and regression techniques with various sized data sets.

Statistical packages: Proficient with Mathematica and IDL, experience with Matlab and R

Can write in \LaTeX , Python, Java, MySQL, HTML (including HTML5 and XHTML), PHP, JavaScript (including jQuery), and CSS.

Have coded and/or administrated several high-profile websites.

Experience in beta testing and bug reporting for various software, including Windows Vista, Windows 7, Windows 8, Microsoft Office 2007/2010/2013, Chrome, and Firefox.

Experience with VBA and Microsoft Access

Proficient with construction of various electronic circuits and use of several types of integrated circuits.

Knowledgeable in radio and optical telescope use and associated image and data reduction/analysis.

Job History

Computer Repair — Geek Squad

Best Buy

Worked in hardware and software repair, maintenance, and backup.

Summers 2005-2006

#186, Los Angeles, CA

Research Assistant

Gibor Basri

As detailed in “Research Experience”.

2006-2008

UC Berkeley Astronomy Department

Summer Camp Teacher

Erica Friesen

As detailed in “Teaching Experience”

Summer 2008 & Summer 2009

Lawrence Hall of Science

Web Designer

Kevin Padian

Designed a website to provide information about macroevolution to K-12 teachers and publishers. Currently in-progress at <http://beta.revealedsingularity.net>.

Summer 2008

UC Berkeley Museum of Paleontology

Technical Advisor 2008 – 2010
FinanceStaff.com Oakland, CA
Did website redesign and maintenance, ad design, and layouts for FinanceStaff corporation. Available at <http://www.financestaff.com>.

Canvasser January 2009
Environment California Berkeley, CA
Worked as a canvasser for renewable energy & policy change.

Web Designer 03/2009 – Present
Connie Spencer Berkeley, CA
Maintain, style, and technical backend updates to <http://www.humorlessbitch.com>
and <http://humorzo.tumblr.com/>

Web Designer 08/2009 – 10/2009
Rincon Chiropractic San Francisco, CA
Redesigning website for Rincon Chiropractic services at <http://www.rinconchiro.com>

Web Design / Computer Repair / Teaching September 2008 – Present
Self-Employed San Francisco, CA
Self-employed worker in computer diagnostics, repair, web design, tutoring, and teaching. Site available at velociraptorsystems.com. Additional clients available on request.

Sales and Animal Husbandry September 2010 – Present
East Bay Vivarium Berkeley, CA
Working in sales and care of reptiles and amphibians, including breeding of snakes and *Pogona vitticeps*.

Coursework

Full coursework at UC Berkeley available at <http://www.revealedsingularity.net/?p=classes>

Languages

Conversational, reading, and writing knowledge of German.

Reading and listening knowledge of Spanish.