

JEREMY HERR

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Career Experience	busyowls.com	Jan 2011 - June 2011
	<i>Personal project</i>	Reigate, Surrey, UK
	<ul style="list-style-type: none">Created a web app for building and sharing interactive study plans; 70 users and growing.	
	European Organization for Nuclear Research (CERN) IT Division	Sep 2008 – Nov 2010
	<i>Project Associate</i>	Geneva, Switzerland
	<ul style="list-style-type: none">Designed and implemented a multimedia lecture recording and archiving system, established a CERN-wide recording service, trained audiovisual personnel to use technology.Wrote the Recording Manager plugin for Indico to integrate archiving system with existing CERN infrastructure.Created an open source software project (http://micala.sourceforge.net) for lecture archiving, still being used and extended by CERN.Performed market survey of relevant technologies, established relationships with peers at other research institutions, made recommendations to IT leadership, promoted the technology at international conferences.	
	University of Michigan (U-M) Department of Physics	Aug 2001 - Nov 2010
	<i>Research Process Manager</i>	Ann Arbor, MI, USA
	<ul style="list-style-type: none">As project manager for the U-M ATLAS Collaboratory Project (http://atlascollab.umich.edu), co-wrote grant proposals, technical reports, documentation, business plans, and helped raise over 600K USD of funding.Managed a National Science Foundation (NSF)-funded project, tested tracking technologies and co-filed a patent in 2005. Licensed tracking camera to Vaddio in 2009, now sold as AutoTrak.Managed the MScribe pilot project, which recorded and streamed eight courses in 2006-07. Co-founded CARMA service in 2008 to make the technology available to all U-M departments.Oversaw the recording and archiving of over 2000 lectures across the US and Europe.Designed, outfitted and managed sister videoconferencing facilities for physicists in Ann Arbor and Geneva. Supported Polycom, Tandberg and Skype-based systems.System administrator for mission-critical Linux Apache web servers, Windows workstations and IIS servers, and a 3TB multimedia repository.Organized the summer activities of NSF Research Experience for Undergraduates program at CERN. Monitored 15 students' academic progress and personal welfare.	
	University of Michigan Department of Mathematics	Aug 1999 – May 2001
	<i>Graduate Student Instructor</i>	Ann Arbor, MI, USA
Education	University of Michigan	Aug 1999 - Apr 2001
	M.S. in Mathematics	Ann Arbor, MI, USA
	University of Oklahoma	Aug 1994 - May 1999
	B.A. in Mathematics, B.A. in German (Phi Beta Kappa honor society)	Norman, OK, USA
	University of Heidelberg	Oct 1996 – Jul 1997
	Study abroad (Mathematics and German)	Heidelberg, Germany
Skills	Project management, web development, database design, system administration, video conferencing administration, systems engineering.	
	Programming languages: Python, Perl, PHP, MySQL, Javascript, HTML/CSS, XML, XSLT, Bash, VisualBasic.	
	Software: Django web framework, Facebook API, Twitter API, Eclipse, Git, Trac, MS Project, Visio, Adobe Illustrator, ffmpeg, AviSynth.	
	Languages: English (native), German (semi-fluent), French (basic)	

- Publications** Herr, J., Loughheed, R., Neal, H. A. Lecture archiving on a larger scale at the University of Michigan and CERN. 2010 *Journal of Physics: Conference Series* **219** 082003. Presented at CHEP 2009, Prague.
- Herr, J., Bhatnagar, T., Goldfarb, S., Irrer, J., McKee, S., Neal, H. A. University of Michigan lecture archiving and related activities of the U-M ATLAS Collaboratory Project. 2008 *Journal of Physics: Conference Series* **119** 082005. Presented at CHEP 2007, Victoria, B.C.
- Herr, J., Chodos, A., Goldfarb, S., Irrer, J., McKee, S., Neal, H. A., Ye, C. A Web Lecture Capture System with Robotic Speaker Tracking. Presented at CHEP 2006, Mumbai, Wednesday, 15 February: <http://indico.cern.ch/sessionDisplay.py?sessionId=5&slotId=0&confId=048#20060215>
- Goldfarb, S., Herr, J., Neal, H. A., Storr, K. M. The Web Lecture Archive Project. Presented at CHEP 2006, Mumbai, Wednesday, 15 February: <http://indico.cern.ch/sessionDisplay.py?sessionId=5&slotId=0&confId=048#20060215>
- Chapman, S., Herr, J., Rooney, N. A Factorization Formula for Class Number Two. 1999 *Journal of Number Theory* **79** Issue 1. pp. 58-66.