

Adam L. Berenzweig

CONTACT INFORMATION

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RESEARCH INTERESTS

Pattern recognition and machine learning. Cognitive science and human perception. Machine listening, music information retrieval, computational auditory scene analysis.

EDUCATION

Columbia University, New York, New York

Ph.D., Electrical Engineering, 2006

- Dissertation Topic: "Personalized music similarity metrics"
- Advisor: Daniel P. W. Ellis

M.S., Electrical Engineering, 2002

Yale University, New Haven, Connecticut

B.S., Computer Science, 1997

PROFESSIONAL EXPERIENCE

Software Engineer

Google, Inc., New York.

2003 - present

Google News, technical lead in New York. Technical lead of music onebox project, 2004-2006.

Research Intern

NEC Research Institute, Inc., Princeton, NJ

May - August 2001, 2002

Researched and designed a music similarity browsing system (www.playola.org). Advisor: Steve Lawrence.

Co-Founder and Director of Research

Learning In Progress, Inc., New York, NY

November 1999 - October 2000

Co-founded an e-learning software startup. Conceived, designed, and built a prototype of educational software to teach computer programming and IT skills. Researched and applied current learning theories and methods of instructional design. Worked with co-founders to set corporate strategy for marketing, business development, and financing. Managed four employees.

Security Standards Architect

Lucent Technologies, Wireless Networks, Whippany, NJ

June 1997 - May 2000

Designed security architectures (encryption and authentication) for wireless phone networks. Represented employer in industry standards bodies (TIA, 3GPP, ITU). Cryptanalysis and cryptographic algorithm and protocol design. Security systems engineering.

Software Developer

Hotjobs, New York, NY

May - August 1995, 1996

Designed and implemented flagship web site providing searchable job and resume database. Responsibilities also included system and network administration and PC support.

Assistant Recording Engineer and Sound Designer

LavskyMusic, New York, NY

Summer 1992, 1993

Operated Synclavier and Direct-to-Disk digital music systems. Worked with advertising representatives to create original music and sound design for TV and radio commercials.

PUBLICATIONS

Adam Berenzweig, Daniel P.W. Ellis, and Steve Lawrence. Anchor models for artist classification and similarity measurement of music. 2002. Int. Conf. on Multimedia and Expo (ICME-2003).

Daniel P.W. Ellis, Brian Whitman, Adam Berenzweig, and Steve Lawrence. 2002. The quest for ground truth in musical artist similarity. Int. Conf. on Music Information Retrieval (ISMIR-2002).

A. Berenzweig, D.P.W. Ellis, and S. Lawrence. 2002. Using voice segments to improve artist classification of music. AES-22 Intl. Conf. on Virtual, Synthetic, and Entertainment Audio.

A. Berenzweig and D.P.W. Ellis. 2001. Locating singing voice segments within music signals. IEEE Workshop on Apps. of Sig. Proc. to Acoustics and Audio (WASPAA 2001), Mohonk NY.

PATENTS

Method for establishing a key using over-the-air communication and password protocol. U.S. Patent 6192474, 02/20/2001

Encrypting Speech Coder. U.S. Patent 6266412, 07/24/2001.

OTHER
QUALIFICATIONS

- Computer security architect. Industry standards body representative, wireless secure communications.
- Software developer and project manager. Perl, Matlab, C/++, php, DHTML, javascript, python, java, shell.
- Audio recording engineer. ProTools, mixing, Digital Performer, sequencer programming.