

# Ben Fields

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## Experience

### *Independent Consulting*

*mycricketaverage.com*, June 2013

Specification and development of twitter bot for tweeting relevant cricket statistics as part of promo.

*Ulyvox*, January - May 2013

Development of full web stack prototype for a social music sharing website.

*Audio Kicker*, April - May 2010

Development of prototypical backend, recommender and playlist engine. Developed in Python using Redis and the echonest.

### *In Our Cellar*

Co-Founder, Head of Product

January 2013 - Present Doing everything that needs to get done to help people drink better. Principally this involves fixing beer data on the Web, especially around point-of-sale availability. Current specific duties vary from full stack web development to data analytics to bizdev.

### *Musicmetric (Semetric Ltd.)*

Data Scientist/Analyst

April 2011 - January 2013 Developed mechanisms for collection of data about Artists and other music entities across the internet. Created and tested novel algorithms for artist identification and recommendation systems.

### *University of Southampton*

Research Assistant, Networked Environments for Musical Analysis

*Intelligence, Agents and Multimedia*, School of Electronics and Computer Science

November 2010 - January 2011

### *Goldsmiths University of London, New Cross, London*

Research Assistant, Networked Environments for Musical Analysis

*Intelligent Sound and Music Systems Group*, Department of Computing

September - October 2010

Visiting Tutor, courses:

Creative Computing 2, Practice 2, Fall 2009

Creative Computing 3, Practice 3, Fall 2008

Teaching Assistance, courses:

Computing 3, User Interface Design and Human Factors, Spring 2010

## Education

Ph.D. Computer Science, Goldsmiths University of London, 2011.

*Thesis:* Contextualize Your Listening: The Playlist as Recommendation Engine

M.S. Music Engineering Technology, University of Miami, 2006.

*Thesis:* On the Viability of Using Mixed Feature Extraction with Multiple Statistical Models to Categorize Music by Genre

B.S. Computer Engineering, University of California, Santa Cruz, 2004.

*Senior Design Project:* Securio - The Autonomous Home Security Robot, Audio Video Specialist

*Minor:* Electronic Music Composition.

*Honors:* Honors in the Major.

## Selected Publications

A. Said, **B. Fields**, B. J. Jain, S. Albayrak, “User-Centric Evaluation of a K-Furthest Neighbor Collaborative Filtering Recommender Algorithm”, in Proc. of the 16th ACM Conference on Computer Supported Cooperative Work and Social Computing (CSCW’13) [to appear]; 2013

K. R. Page, **B. Fields**, D. De Roure, T. Crawford, J. S. Downie, “Reuse, Remix, Repeat: The Workflows of MIR”, in Proc. of Int. Symposium on Music Information Retrieval, Porto, Portugal, October 2012.

D. De Roure, K. Page, **B. Fields**, T. Crawford, I. Fujinaga, J. S. Downie, “An e-Research Approach to Web-Scale Music Analysis”, Philosophical Transactions of the Royal Society A, 369(1949):3300-3317, 2011.

**B. Fields**, K. Jacobson, C. Rhodes, M. d’Inverno, M. Sandler, M. Casey, “Analysis and Exploitation of Musician Social Networks for Recommendation and Discovery.”, IEEE Transactions on Multimedia, 3(4):674-686, 2011.

**B. Fields**, C. Rhodes, M. d’Inverno, “Automatic Group-Interactive Radio using Social-Networks of Musicians”, in International AAAI Conference on Weblogs and Social Media (ICWSM), Barcelona, Spain, July 2011.

**B. Fields**, K. Page, T. Crawford, D. De Roure, “The Segment Ontology: bridging music-generic and domain-specific”, in Workshop on Advances in Music Information Research (AdMIRE), co-located the IEEE International Conference on Multimedia and Expo (ICME), Barcelona, Spain, July 2011.

K. Page, **B. Fields**, B. Nagel, G. O’Neill, D. De Roure and T. Crawford, “Semantics for music analysis through linked data: How country is my country?,” in Proceedings of the International Conference on eScience, Brisbane, Australia, Dec, 2010.

**B. Fields**, C. Rhodes, M. d’Inverno, “Using Song Social Tags and Topic Models to Describe and Compare Playlists,” Workshop on Music Recommendation and Discovery, co-located with ACM Recommender Systems, Barcelona, September 2010.

K. Jacobson, **B. Fields**, and M. Sandler, “Using audio analysis and network structure to identify communities of on-line social networks of artists,” in Proc. of Int. Conference on Music Information Retrieval, Philadelphia, PA, USA, September 2008.

**B. Fields**, K. Jacobson, C. Rhodes, and M. Casey, “Social playlists and bottleneck measurements: Exploiting musician social graphs using content-based dissimilarity and pairwise maximum flow values,” in Proc. of Int. Symposium on Music Information Retrieval, Philadelphia, PA, USA, September 2008.

**B. Fields**, K. Jacobson, M. Casey, and M. Sandler, “Do you sound like your friends? exploring artist similarity via artist social network relationships and audio signal processing,” in Int. Computer Music Conference, August 2008.

K. Jacobson, **B. Fields**, M. Sandler, M. Casey, “The Effects of Lossy Audio Encoding on Genre Classification Tasks,” in Proc. Audio Engineering Society 124 Int. Conv., (Amsterdam, Netherlands), Audio Engineering Society, May 2008.

**B. Fields**, M. Casey, “Using Audio Classifiers as a Mechanism for Content Based Song Similarity,” in Proc. Audio Engineering Society 123 Int. Conv., (New York, NY, USA), Audio Engineering Society, October 2007

**B. Fields**, “Using mixed feature extraction with multiple statistical models to achieve song categorization by genre,” in Proc. Audio Engineering Society 122nd Int. Conv., (Vienna, Austria), Audio Engineering Society, May 2007.

## Selected Presentations and Talks

Presentation: “Tastes Great, Less Wordy: Document NLP (For Beer)”, Strange Loop, 18-20 September 2013 in St. Louis, MO, USA. [upcoming](#).

Presentation: “Should We Care About Content? Recommending by Proxy with Big Metadata”, O’Reilly Strata EU, 1 October 2012 in London, UK. [slides](#).

Presentation: “Customers Who Bought Music Also Bought Beer,” given at Devs Love Bacon, 13 April 2012 in London, UK. [video](#)

Tutorial: “Finding a Path Through the Juke Box: The Playlist Tutorial,” given at ISMIR 2010, 9 August 2010 in Utrecht, The Netherlands. Co-presented with Paul Lamere. Slides available as [Flash](#) or [pdf](#).

Presentation: “Analysis and Exploitation of Musician Social Networks for Recommendation and Discovery,” given at IEEE-THEMES, a workshop co-located at ICASSP 2010, 15 March 2010 in Dallas, TX, USA. [Slides](#).

Invited Talk: “The Semantic Web and Why You Should Care,” given at JCDL 2009 Integrating Digital Library Content with Computational Tools and Services workshop, 19 June 2009 in Austin TX, USA. Co-presented with Kevin Page. [Slides](#).

## Honors, Awards, & Fellowships

EPSRC PhD Studentship, as part of the OMRAS2 project

Goldsmiths University of London, Department of Computing Grant for Overseas Research

Audio Engineering Society Educational Foundation Award

University of Miami Frost School of Music departmental scholarship

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