

LAWRENCE FYFE

Curriculum Vitae

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- Biography** My work is focused on interactive media systems, particularly for sound and music, with strong interests in the following areas: distributed systems, creative coding, human-computer interaction, interaction design, sound design, algorithmic music, live coding, interactive installations, protocol development, animated and interactive scores, and networked music.
- Education**
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| 2009-2015 | Doctor of Philosophy in <i>Computational Media Design</i> , University of Calgary |
| 2007-2008 | Master of Arts in <i>Music, Science and Technology</i> , Stanford University |
| 1994-1999 | Bachelor of Arts in <i>Chemistry</i> , University of California, Davis |
- Experience**
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|-----------|------------------------------|--|
| 2015-Now | Freelance Programmer | Stanford University, CeriBell, Motus Visio |
| 2000-2007 | Programmer | University of California, Davis |
| 1998-2000 | Computer Resource Specialist | University of California, Davis |
- Teaching**
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| 2015-2016 | Teaching Assistant, <i>Online Jamming and Concert Technology</i> , (via Kadenze.com), Stanford University |
| 2014 | Instructor, <i>Creative Programming for Digital Media</i> , University of Calgary |
| 2012-2013 | Teaching Assistant, <i>New Music Ensemble</i> , University of Calgary |
| 2012, 2010 | Teaching Assistant, <i>Audio Recording</i> , University of Calgary |
| 2011, 2010 | Teaching Assistant, <i>Applications of Computing Technology for Non-Computer Scientists</i> , University of Calgary |
| 2010 | Programming Mentor for Computational Media Design, University of Calgary |
| 2010 | Instructor, <i>Introduction to the JunctionBox Toolkit</i> , University of Calgary |
| 2010 | Co-Instructor, <i>Multi-touch Tabletop Music</i> (CCRMA Summer Workshop), Stanford University |
- Publications**
- | | |
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| 2015 | Lawrence Fyfe. <u>JunctionBox: A Multi-touch Interaction Mapping Toolkit for Creating Musical Interfaces</u> . PhD thesis, University of Calgary. |
| 2014 | Lawrence Fyfe, Adam Tindale and Sheelagh Carpendale. <u>Extending the Nexus Data Exchange Format (NDEF) Specification</u> . In <i>Proceedings of the Conference on New Interfaces for Musical Expression</i> , pages 343-346. |
| 2012 | Lawrence Fyfe, Adam Tindale and Sheelagh Carpendale. <u>Node and Message Management with the JunctionBox Interaction Toolkit</u> . In <i>Proceedings of the Conference on New Interfaces for Musical Expression</i> , pages 520-521. |
| 2012 | Lawrence Fyfe, Adam Tindale and Sheelagh Carpendale. <u>JunctionBox for Android: An Interaction Toolkit for Android-based Mobile Devices</u> . In <i>Proceedings of the Linux Audio Conference</i> , pages 89-92. |

2011 Lawrence Fyfe, Adam Tindale and Sheelagh Carpendale. JunctionBox: A Toolkit for Creating Multi-touch Sound Control Interfaces. In *Proceedings of the Conference on New Interfaces for Musical Expression*, pages 276-279.

2010 Lawrence Fyfe, Sean Lynch, Carmen Hull and Sheelagh Carpendale. SurfaceMusic: Mapping Virtual Touch-based Instruments to Physical Models. In *Proceedings of the Conference on New Interfaces for Musical Expression*, pages 360-363.

- Invited Talks**
- September 20, 2013 *JunctionBox: A Toolkit for Creating Networked Multi-touch Control Interfaces*, Graduate Music Colloquium 11, University of Calgary
 - May 14, 2013 *The JunctionBox Interaction Design Toolkit: Making Interaction Programming Easier to Allow for Sketching with Sound*, GRAND Conference, Toronto, Canada
 - March 2, 2013 *The Development of the JunctionBox Interaction Toolkit*, Computational Media Design Workshop, Banff Centre, Canada
 - May 15, 2012 *Music and Practice-based Research: Making Research More Creative and Putting More Research into Creativity*, Confounding Expectations Conference, University of Calgary
 - January 27, 2012 *JunctionBox Demo*, Happening Festival, University of Calgary
- Performed Works**
- April 13, 2012 *Sol Aur* (Stereo, fixed media), Linux Audio Conference, Stanford University
 - September 9, 2010 *Number Relations* (Stereo, fixed media), Sounding Out 5, Bournemouth, UK
 - November 20, 2008 *The Pull of the Past* (8 channels, fixed media), CCRMA Fall Concert, Stanford University
 - October 11, 2008 *The Storm Breaks* (16 channels, fixed media), Listening Room Concert, Stanford University
 - July 12, 2008 *Ghost of a Piano* (8 channels, fixed media), Music Compos[it]ing, Stanford University
- Selected Ensemble Performances**
- September 16, 2014 *Aspect*, International Computer Music Conference - Sound and Music Computing, Athens, Greece
 - February 16, 2014 *Aspect*, Coast X Coast, University of Calgary
 - March 2, 2013 *Aspect*, Computational Media Design Workshop, Banff Centre, Canada
 - November 22, 2011 *Canada Distributed Laptop Ensemble (CanDLE)*, CEC 25th Anniversary Concert, University of Calgary
 - April 29, 2008 *Stanford Laptop Orchestra (SLOrk)*, Pacific Rim of Wire, Stanford University
 - April 26, 2008 *Stanford Laptop Orchestra (SLOrk)*, Sonic SLOrk Sculptures, Stanford University
 - January 11, 2008 *Stanford Mobile Phone Orchestra (MoPhO)*, MoPhO: Mobile Phone Orchestra of CCRMA, Stanford University
- Installations**
- February 6-27, 2015 *Distance 2 (Toshi Ichiyonagi)* (2 channels, interactive media), University of Calgary
 - May 30, 2008 *Texture Experiment 0.1* (2 channels, interactive media), Stanford University
- Recordings**
- October 28, 2015 *The Lo-Fi Collection*, (A collection of my graduate works spanning 2007-2015)

Invited Panels January 28, 2010 *Art and Technology Panel*, Happening Festival, University of Calgary

Residencies August 2009 Visiting Researcher, Music and Sound, Banff Centre, Canada

Press November 19th, 2015 *Online Jamming and the Art of the Network: An Interview with Chris Chafe and Lawrence Fyfe*, Kadenze.com
May 2, 2012 *A Report from the Linux Audio Conference*, LWN.net

Paper Reviews Graphics Interface (GI), Human Factors in Computing Systems (CHI), Interactive Tabletops and Surfaces (ITS), and the International Computer Music Conference (ICMC).