



Curriculum Vitæ

David Gerhard, Ph.D.

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Research Abstract. My research focuses on computational interaction with information-rich human data such as music, speech, vision and movement. This research incorporates signal processing, pattern classification, information retrieval and artificial intelligence techniques with multimedia, speech recognition, computer music and human-computer interaction. I am interested in areas of research which blur traditional discipline boundaries. My varied background in Engineering, Computer Technology, Mathematics, Communication, Music, Linguistics and Philosophy provides me with a broad perspective on issues of science and technology, while maintaining a deep knowledge of my chosen research field.

Teaching Abstract. My teaching style is interactive, dynamic and learner-directed. Very positive student reviews indicate that my classes have been both effective and enjoyable. In preparing and delivering lectures, I keep in mind that students learn in many different ways, and that the goal of any learning activity is twofold: understanding of the material and development of learning skills and style. I enjoy challenging myself and students with new techniques and technologies, and I believe that the result is an improved learning environment.

Educational Background

Ph.D. 2003, Computing Science, Simon Fraser University, Burnaby, BC.
Thesis: *Computationally Measurable Differences Between Speech and Song.*
Supervisor: Dr. F. Popowich

B.Sc.Comp.E. (Distinction) 1996, Computer Engineering, University of Manitoba, Winnipeg, MB.
Thesis: *Lossy Compression of Head and Shoulder Images Using Zerotrees of Wavelet Coefficients.*
Supervisor: Dr. W. Kinsner

Instructional Training :

The 7th Institute on Teaching in Higher Education
University of Regina Teaching Development Center, Aug 23–27, 2004

Instructional skills workshop
Simon Fraser University Center for University Teaching, Apr 26–28, 1999

Professional Experience

2003–2007 Assistant Professor (tenure-track), Department of Computer Science, University of Regina

2007–current Assistant Professor (tenured), Department of Computer Science, University of Regina

Research Funding: Awarded

Natural Sciences and Engineering Research Council Discovery Grant (\$17,000) 2007-2012

SSHRC General Research Grant Fund with J. Barden, R. Kell, and D. Malloy, Kinesiology (\$5000) 2006

U of R Transdisciplinary Fund: Competition B: Small Projects (3 awards, \$2500 each) 2005

- with C. Marsh, Music and C. Fox, Media Production and Studies

- with J. Barden, Kinesiology; D. Hepting, Computer Science; K. Irwin, Theater; A.K. Brown, Education; and R.V. Knowles, Visual Arts

- with P. Elliott, Journalism; P. Fong, Computer Science; D. Hepting, Computer Science; R. Petry, Philosophy and Classics (Luther); and C. Polster, Sociology

University of Regina Technology Enhanced Learning with D. Hepting (\$32,000) 2005

Canadian Foundation for Innovation Ongoing New Opportunities Fund with D. Slezak (\$59,655), 2004

Saskatchewan Innovation and Science Fund with D. Slezak (\$59,655) 2004

Natural Sciences and Engineering Research Council Discovery Grant (\$17,000) 2004-2007

Natural Sciences and Engineering Research Council Research Tools and Instruments with X.-D. Yang, D.H. Hepting, H. Hamilton and B. Yang (\$44,594) 2004

Government of Canada Western Economic Diversification with X.-D. Yang, D.H. Hepting, and H. Hamilton (\$97,000) 2004

University of Regina Startup Research Grant (\$28,000) 2003

Vice President Matching Support (\$2500) 2003

Teaching Experience

Computer Science, University of Regina. (* Directed readings course)

| Course | Number | Semester | Year |
|--|----------------|--------------------|------|
| Introduction to Computer Audio | CS 327 | January–April | 2008 |
| Computer Audio | CS 827 | January–April | 2008 |
| Elements of Computer Hardware and Software | CS 250 | September–December | 2007 |
| Digital Systems Architecture | CS 301 | September–December | 2007 |
| Pattern Recognition | CS 835 | September–December | 2007 |
| Honours Orals and Honours Seminars | CS 498/499/900 | September–August | 2007 |
| Computer Audio Topics* | CS 890CG | May–August | 2007 |
| Software Development and Professional Practice | CS 280 | January–April | 2007 |
| Elements of Computer Hardware and Software | CS 250 | September–December | 2006 |
| Computer Audio Topics* | CS 490BX | September–December | 2006 |
| Pattern Recognition | CS 835 | September–December | 2006 |
| Honours Orals and Honours Seminars | CS 498/499/900 | September–December | 2006 |
| Topics in Societal and Ethical Considerations* | CS 290AG | May–August | 2006 |
| Computer Architecture | CS 400 | January–April | 2006 |
| Computer Audio Topics* | CS 490BX | January–April | 2006 |
| Computer Audio Topics* | CS 890CG | January–April | 2006 |
| Elements of Computer Hardware and Software | CS 250 | September–December | 2005 |
| Human Computer Communications | CS 305 | September–December | 2005 |
| Computer Architecture | CS 400 | January–April | 2005 |
| Computer Audio Topics* | CS 490BX | January–April | 2005 |
| Pattern Recognition | CS 835 | September–December | 2004 |
| Computer Architecture | CS 400 | January–April | 2004 |
| Computer Audio Topics* | CS 490BX | January–April | 2004 |
| Computer Audio Topics* | CS 890CG | January–April | 2004 |

New course development (University of Regina):

- CS 327 Introduction to Computer Audio: Calendar course based on CS 490BX (first offering: Winter 2008)
- CS 827 Computer Audio: Calendar course based on CS 890CG (first offering: Winter 2008)
- CS 280: Software Development and Professional Practice (first offering: Winter 2007)
- Curriculum re-development for Hardware architecture stream: CS201 and CS301 (with C. Butz, C. Zhang)
- Directed readings courses on Computational Acoustics and Societal and Ethical Considerations

Computer Science, University of Manitoba:

- Introduction to Computer Usage (74.126) Sep–Dec 2002. Course Supervisor: Christina Penner

Computing Science, Simon Fraser University:

- Introduction to Computer Design (CMPT-150-ARC) Apr–Aug 2000 and 2001. Alternate Routes to Computing Post-Baccalaureate Program. Sole Instructor
- Introduction to Computer Design (CMPT-150-ARC) Apr–Aug 2000. Alternate Routes to Computing Post-Baccalaureate Program. Sole Instructor.
- Introduction to Computer Architecture (CMPT-250) Apr–Aug 1999. Sole Instructor

Other Relevant Employment

Radio Columnist. (2006–current) Regular columns on computers and technology. CBC Radio, Regina.

Web Consultant. (2003–2006) Canadian Council for Continuing Education in Pharmacy <http://www.cccep.org>

Lecturer. (2003) University of Regina Department of Computer Science.

Consultant. (2002–2004) SAY interactive multimedia art project, E. Zaag, Artist, Front Media, Vancouver BC

Sessional Instructor. (2002) University of Manitoba Department of Computer Science.

Sessional Instructor. (1999–2001) Simon Fraser University Department of Computing Science.

Research Activities

Selected Research Publications

1. **David Gerhard**, Brett Park, and Jarrod Ellis (2008, to appear). Focus-Plus-Context Audio Interaction Design. Computer Music Modeling and Retrieval, Lecture Notes in Computer Science **Citeseer Impact Factor 0.75 (top 34.64%)**
2. Daryl H. Hepting , Lijuan Peng , Timothy J. Maciag, **David Gerhard** and Brien Maguire. (2008, to appear) Usability Course Synergies with Open Source Software Projects. *Interactions*. ACM Press. (Professional Magazine article)
3. **David Gerhard** and Ellen Moffat (2007). convocare_consonare: A Duet in Four Voices. International Computer Music Conference, Copenhagen. (refereed conference proceedings)
4. **David Gerhard** and Jarrod Ellis (2007). Focus-Plus-Context Displays for Audio Interaction. International Conference on Computer Music, Copenhagen. (refereed conference proceedings)
5. **David Gerhard** and JJ Nixdorf (2007). Real-time Multi-Source Soundscape Spatialization with RITZ. IAS2 Intersections: Soundscapes and Music; Soundscapes and Identity. Regina. (conference abstract)
6. Ellen Moffat and **David Gerhard** (2007). Phonetic Aesthetic: a work in progress. IAS2 Intersections: Soundscapes and Music; Soundscapes and Identity. Regina. (conference abstract)

7. Brien Beattie, Garrett Nicolai, **David Gerhard**, and Bob Hilderman (2007). Pattern Classification in No-Limit Poker: a Head-Start Evolutionary Approach. Canadian Conference on AI, Lecture Notes in Computer Science, pp 204–215 **Impact Factor 0.26 (top 68.87%)**
8. JJ Nixdorf and **David Gerhard** (2006). RITZ: A real-time tool for interactive spatilzation. Proc. ACM Multimedia, Santa Barbara, pp 687–690 **acceptance rate 35%, Citeseer Impact Factor 1.22 (top 14.98%)**
9. JJ Nixdorf and **David Gerhard** (2006) Real-time sound source spatialization as used in *challenging bodies*: implementation and performance. International Conference on New Interfaces for Musical Expression (NIME06), Paris, 318–321 (refereed conference proceedings)
10. **David Gerhard** and JJ Nixdorf (2006) Computational Sound Source Localization for Musical Expression in Live Performance (Abstract). *Spanning the Distance: Canadian meeting of the International Association for the Study of Popular Music*. Regina, SK. (conference abstract)
11. **David Gerhard** (2005). Multiresolution pitch analysis of talking, singing, and the continuum between. Rough Sets, Fuzzy Sets, Data Mining and Granular Computing (RSFDGrC'05), Lecture Notes in Artificial Intelligence (LNAI) 3642, Vol II, pp 294–303. (book chapter)
12. **David Gerhard** (2005) Pitch Track Target Deviation in Natural Singing. Sixth International Conference on Music Information Retrieval (ISMIR) Queen Mary UK pp 514–519. (refereed conference proceedings)
13. **David Gerhard** and Daryl H. Hepting (2005) A Framework for Personalization of Interactive Sound Synthesis. International Computer Music Conference, Barcelona, Spain, IEEE. (refereed conference proceedings)
14. Daryl H. Hepting, **David Gerhard**, Joel Rathgaber. (2005) Realtime Interactive Multimedia Performance. *ACM SIGGRAPH 2005*, Los Angeles, California. (poster)
15. Lu Meng and **David Gerhard** (2005) Acoustic ray tracing for 3D environment simulation. *Proceedings of the Canadian Acoustical Association's Acoustics Week in Canada (2005)*, London, Ontario, (abstract)
16. Daryl H. Hepting and **David Gerhard** (2004) Collaborative computer-aided parameter exploration for music and animation. Computer Music Modeling and Retrieval (CMMR) 2004, Lecture Notes in Computer Science (LNCS) 3310, pp 158–172. **Citeseer Impact Factor 0.75 (top 34.64%)**
17. **David Gerhard** and Daryl H. Hepting (2004) Cross-modal parametric composition. *Proceedings of the 2004 International Computer Music Conference (ICMC04)*, Miami, Florida, IEEE. pp 505–512. (refereed conference proceedings)
18. **David Gerhard**, Daryl H. Hepting and Mathew McKague (2004) Exploration of the correspondence between visual and acoustic parameter spaces. *Proceedings of the 2004 Conference on New Interfaces for Musical Expression (NIME04)*, Hamamatsu, Japan, pp 96–99. (refereed conference proceedings)
19. Daryl H. Hepting, **David Gerhard**, Matthew McKague, Paul Schmiedge (2004). Managing parameter spaces for multimedia composition. *ACM SIGGRAPH 2004*, Los Angeles, California (poster)
20. Ying Ding and **David Gerhard** (2004) Analysis and Synthesis Of The Guqin - A Chinese Traditional Instrument. Journal of the Canadian Acoustical Association, *Proceedings of the Canadian Acoustical Association's Acoustics Week in Canada (2004)*, Ottawa, Ontario, pp 122–123. (refereed conference proceedings)
21. **David Gerhard** (2003) Pitch Extraction and Fundamental Frequency: History and Current Techniques. *University of Regina Technical Report TR-CS 2003-06*, 22 pages
22. **David Gerhard** (2003) Audio Signal Classification: History and Current Techniques. *University of Regina Technical Report TR-CS 2003-07*, 37 pages

23. **David Gerhard** (2003) Silence as a Cue to Rhythm in the Analysis of Speech and Song. *Journal of the Canadian Acoustical Association*, 31(3): 22–23
24. **David Gerhard** (2003) Automatic computational models of acoustical category features: talking versus singing *Journal of the Acoustical Society of America*. (abstract)114(4): 2425
25. **David Gerhard** (2002) Pitch-based acoustic feature analysis for the discrimination of speech and monophonic singing. *Journal of the Canadian Acoustical Association*. 30, III: 152–153

Membership in Professional Organizations: Local

- Founding Member and Director, Rough Music and Audio Digital Interaction Lab (aRMADILo) (2005–current)
- University of Regina Centre for Open Systems and the Internet (COSI) (2004–current)
- Web Intelligence Consortium Canada Research Center, University of Regina (2003–current)
- University of Regina Laboratory for Computational Discovery (2003–current)

Membership in Professional Organizations: National and International

- International Association for the Study of Popular Music (2006–current)
- Institute for Electrical and Electronics Engineers (IEEE) (2006–current)
- Association for Computing Machinery (ACM) (2004–current)
- International Computer Music Association (ICMC) (2004–current)
- Acoustical Society of America (ASA) (2003–current)
- American Institute of Physics (AIP) (2003–current)
- Canadian Acoustical Association (CAA) (2003–current)

Other Research Activities

- Conference Organization:
 - ACM Multimedia Conference (technical committee) 2007
 - New Interfaces for Musical Expression (program committee) 2007
 - Tutorials Chair, International Conference on Music Information Retrieval (Victoria, BC) 2006
 - Session Chair: Pitch and Transcription. International Conference on Music Information Retrieval (Victoria, BC) 2006
- Academic Reviewing:
 - Computer Music Journal, 2007
 - Computational Statistics and Data Analysis Journal, 2007
 - Signal Image and Video Processing Journal 2007
 - International Conference on Music Information Retrieval, 2007
 - International Conference on New Interfaces for Musical Expression, 2006
 - The European Association for Signal, Speech and Image Processing Journal on Applied Signal Processing (EURASIP JASP) 2005–2006
 - **David Gerhard** (2006). Review of the 6th international conference on music information retrieval (ISMIR 2005). *Computer Music Journal* Volume 30, Number 2, 90–92.

- Pearson Education, book on Computer Music, covering MIDI, Audio, and Java Sound, 2005
- ACM Transactions on Speech and Language Processing, 2004–2005
- Canadian Acoustical Association Acoustics Week in Canada, 2004

- Grant and Award Reviewing:

- NSERC discovery grants, 2006, 2007, 2008
- Saskatchewan Wheat Board Computer Science grant, 2007
- Canadian Foundation for Innovation Leaders Opportunity Fund, 2005
- NSERC Strategic projects: New Media Initiative (2 projects) 2005
- Canadian Acoustical Association Shaw Prize in Acoustics, 2004

- Training of Highly-Qualified Personnel: (Promoted to category D for graduate supervision, 2007)

| Student | Program | Status | Date | Notes | |
|----------------|---------|-------------|-----------|--|-----------------------------------|
| Robert Bailey | MSc | Current | 2007 | Co-Supervised with Howard Hamilton Part-time | |
| Brett Park | MSc | Current | 2007 | | |
| Hao Li | MSc | Current | 2007 | | |
| Xinglin Zhang | MSc | Current | 2007 | | |
| LiJuan Peng | MSc | Current | 2006 | Part-time | |
| Joel Rathgaber | MSc | Current | 2006 | | |
| Mark Cazakoff | MSc | Current | 2006 | | |
| Tim Maciag | MSc | Completed | 2004–2006 | Co-supervised with D. Hepting ABD, Currently working at EA games | |
| JJ Nixdorf | MSc | Current | 2004 | | |
| Chris Safinuk | MSc | Withdrawn | 2004–2006 | Currently working in IT | |
| Ying Ding | MSc | Transferred | 2004–2006 | Currently at Calgary | |
| Lu Meng | MSc | Withdrawn | 2003–2006 | Returned home to China | |
| Jennifer Allen | BSc | Current | 2007 | NSERC USRA, co-supervised with J. Barden Current MSc under my supervision | |
| Mark Cazakoff | BSc | Completed | 2006 | | |
| Jarrold Ellis | BSc | Completed | 2006 | | |
| Jeremy Hinks | BSc | Completed | 2005 | | summer employment student |
| Ryan Hill | BSc | Completed | 2005 | | Current local electronic musician |

- Thesis Examiner

- Danqing Zhao, MSc, 2007 (University of Regina, Engineering External)
- Peter Kort, MSc, 2007 (University of Regina, CS Internal)
- Ying Sun, MSc, 2004 (University of Regina, Engineering External)

- Thesis Committees:

- Richard Dosselmann, PhD, 2007–current
- Richard Dosselmann, MSc, 2006–2007
- James Heather, MSc, 2004–2005
- Aaron Ward, MSc, 2004

- Undergraduate Honours Orals:

- Robert Bailey, Honours Oral, 2007 (Computer Audio)
- Michael Brooks, Honours Oral, 2007 (Computer Audio)
- Vili Bogdan, Honours Oral, 2007 (Orals Coordinator)
- Ben Harack, Honours Oral, 2007 (Orals Coordinator)
- Kevin Guo, Honours Oral, 2007 (Orals Coordinator)

- Joel Rathgaber, Honours Oral, 2005 (Computer Audio)
- Jared Gabruch, Honours Oral, 2005 (Computer Audio)
- Recent Presentations, Talks, and Pieces:
 - Digital Music and Digital Rights. Seminar to iQmetrics (business). 2007 (invited)
 - Human voice classification. Seminar to Department of Physics, University of Regina. 2006 (invited)
 - User interfaces in music information retrieval. (tutorial, 3 hours) International Conference on Music Information Retrieval, Victoria, BC. 2006
 - The Flatland Scratch Seminar/Workshop Series: Reconsidering the Project. Roundtable Keynote at *Spanning the Distance: the Canadian Meeting of the International Association for the Study of Popular Music* Regina, SK. 2006
 - Challenging bodies: Interactive multimedia show (guitar, computers) Regina Rehabilitation Center, 2006
 - The Technology of Challenging Bodies. Computer Science Department Colloquium, University of Victoria. 2005 (invited)
 - Multiresolution Pitch Analysis of Talking, Singing, and the Continuum Between. The Tenth Intl. Conf. on Rough Sets, Fuzzy Sets, Data Mining, and Granular Computing. University of Regina, 2005
 - Pitch Track Target Deviation In Natural Singing. Intl. Conf. on Music Information Retrieval. Queen Mary, University of London. 2005
 - A Framework for Personalization of Interactive Sound Synthesis. Intl. Computer Music Conf., Barcelona, Spain. 2005
 - The Flatland Scratch Seminar/Workshop Series (3 presentations) 2005
 - Challenging bodies: Interactive multimedia show (guitar, computers) University of Regina 2005
 - 3 posters on current research at the Information and Communications Technology Networking Forum, Regina Research park, 2004
 - Cross-modal parametric composition. Presented to the International Computer Music Conference, 2004
 - *Triangularhythmic (2004)* Digital Jukebox, International Computer Music Conference, 2004
 - Exploration of the correspondence between visual and acoustic parameter spaces. Presented to the International Conference on New Interfaces for Musical Expression, 2004
 - Current research in Information Technology. Presentation to Saskatchewan Minister of Learning, 2004
 - Human Computer Interaction. Presentation to the annual CIPS Queen City meeting, Regina, 2004

Selected Awards, Scholarships, and Fellowships

- Best Paper by a Young Presenter (Signal Processing) Acoustical Society of America, Austin, Texas, 2003
- NSERC Post-Graduate Scholarship - B. 1999–2001. Total value \$38,200
- NSERC Post-Graduate Scholarship - A. 1996–1998. Total value \$31,200

Recent Service Activities and Administrative Duties

- Regular columnist on issues of technology for CBC Sask. Morning Edition radio show (paid, 2006–current)
- Chair, Industrial Advisory Committee, Department of Computer Science (2007–current)
- Student Appeals Committee, Faculty of Science (2007–current)
- Branding Advisory Committee, University of Regina (2007–current)
- Acoustics consultant for the Mackenzie Art Gallery (2006)

- Dean's Representative (Fine Arts), Faculty search committee (2006–2007)
- Chair, Seminar Committee, Department of Computer Science (2006–2007)
- Honours Coordinator, Department of Computer Science (2006–2007)
- Curriculum Committee, Department of Computer Science (2006–2007)
- Executive of Council, University of Regina (2006–2007)
- Publicity: Newsletter, Department of Computer Science, University of Regina (2005–2007)
- Co-op committee, Department of Computer Science, University of Regina (2005–2006)
- Curriculum re-development: Hardware and architecture stream (2003–current)
- Software Systems lab, robotics section development (2003–2004)
- Organizer and Founder, University of Regina Macintosh Community (2003–current)
- Planning Committee, Department of Computer Science, University of Regina (2003–2005)
- Website Coordinator, Department of Computer Science, University of Regina (2003–2005)
Oversaw Roll-out of new version of website.
- Judge, Regina Regional Science Fair (2003, 2004, 2007)
- Judge, Langenburg High School Science Fair (Winter 2003)

Selected news media articles mentioning my research

- Measuring the body in motion. University of Regina Report, September 10, 2007
- Radio report: "Challenging bodies" Saturday, March 04, 2006
- Knowledge should benefit all: experts. Regina Leader-Post, Nov 19, 2005
- University of Regina looks at privatization of information. National Union of public and general employees, 7 August 2005. http://www.nupge.ca/news_2005/n07au05a.htm
- 'Cool' Technology could help disabled communicate. Regina Leader-Post, June 18, 2005
- **University of Regina News Releases, 2005.**
<http://www.uregina.ca/news/releases/2005/index.shtml>
 - Transdisciplinary seminar series explores rise of DJ culture. Feb 14
 - Seminar explores new technologies and new soundtracks. March 21
 - The Flatland Scratch Seminar/ Workshop Series. April 1
 - Free Knowledge: Creating a Knowledge Commons. Nov 15
- Acoustics in the News. Echoes, the Newsletter of the Acoustical Society of America, Vol 14 No 1 Winter 2004
- Wikis, blogs, conservation and computers. University of Regina Featured Campus News (online), Jun 2004
<http://www.uregina.ca/news/featured/wikis.shtml>
- A sampling of what some faculty will do for the summer. Regina Leader Post June 10, 2004
- Noteworthy (best paper by a young presenter, Acoustical Society of America, Austin meeting). University of Regina Featured Campus News (online), Mar 9, 2004
http://www.uregina.ca/news/noteworthy/mar09_04.shtml

- Year 2003 News Archive of AI in the news articles (online). Teaching computers how we sing Nov 16, 2003
<http://www.aaai.org/AITopics/html/archvD11.html>
- Museum of Music (online) “Tech: Will Elvis rerturn, chopped to bits?” Jan 5, 2004
<http://www.museumofmusic.org/vibrationsback/v02n01/14.html>
- Radio interview, CBC Regina. “The Afternoon Edition” (Colin Grewar), 4:10 pm Dec 1, 2003. 8 min, 36 sec.
Topic: speech and song discrimination research
- Agent AI Portal (online Artificial Intelligence magazine, in Hungarian) “Dal vagy beszéd? (Melody or speech?)” Nov 26, 2003.
<http://www.agent.ai/main.php?folderID=118&articleID=634&ctag=articlelist&iid=1>
- Cognitive Science News (online Artificial Intelligence Magazine), “Singing computers.” Nov 19, 2003.
http://cognews.com/1069307981/index_html
- Toronto Star, Sunday, Nov 16, 2003. “Teaching computers how we sing.”, 2/3 page, 41 paragraphs, page C16 (Science page), callouts and several mentions of David Gerhard and University of Regina
- American Institute of Physics, Inside Science News Top Story (online) “Computing the difference between speech and song” Nov 13, 2003. <http://www.aip.org/isns/reports/2003/084.html>
- University of Regina Campus News (online), “New Faces” Oct 6, 2003.
<http://www.uregina.ca/news/newfaces/gerhard.shtml>
- Regina Leader-Post, Thursday, Sep 25, 2003: “Computing the Difference between speech and song.” 1/2 page, 11 paragraphs plus photo, page D5 (University of Regina Update)
- Simon Fraser University News, Volume 26, Number 3 (Convocation Issue) May 29, 2003: “High tech band leader.” 1 column, 8 paragraphs plus photo, page 4

Other Interests

- University of Regina Chamber Singers, Second Tenor (2003–current)
- World Wide Panorama Project: <http://geoimages.berkeley.edu/wpppeople/html/DavidGerhard.html>
(7 contributions, 2004–current)
- Music Director: Various United Church of Canada Provincial and National Meetings, including Connections (2008), Youth Ministry Certificate Program (2007), Conference of Manitoba Northwest Ontario (2007), Saskatchewan Conference (2006), and KAIROS national young adult event (2005).
- Tech Support: United Church of Canada Saskatchewan Conference annual meeting (2006)
- Workshop leader, Music Animator: United Church of Canada “Ethos” event, Winnipeg, MB (2006)
- Choir Director, St James United Church Choir, Wolseley SK (Honorary position, 2005–2006)
- Music Animator, Band Leader: “Off the Page” (2004–current)
- Member, Wolseley/Calling Lakes Community Choir (2004–2006)
- Choir Director and Song Leader, Oak Avenue United Church, Surrey BC. (Paid position, 2000–2002)
- Taekwondo: Blue belt, 1st in division, BC Provincial Championships (2002)
- Songbook: *Wake Up! Songs for Worship and Play*. A collection of 12 songs for children (and adults) by David Gerhard and Friends. Self-published. (2000)