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# Christine Cousins

www.christinecousins.com  
ccousins (at) uoguelph (dot) ca

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## EDUCATION

M.Sc. Chemical Sciences In Progress  
Laurentian University Expected Completion Fall 2008

*Thesis Topic:* carbon degradation in  
paper sludge applied over mine tailings

Honours B.Sc. Physical Science Completed June 2005  
Specialization: Chemistry  
University of Guelph

B.A. English In Progress  
University of Guelph Expected Completion August 2007  
Distance Education

## LABORATORY SKILLS

### Field work

- Instrumentation installation/refurbishing
- On-site sampling: soil, water, air, plants

### Chemistry

- Wet/Bench-top chemistry
- X-ray Fluorescence Spectroscopy (XRF), synchrotron
- Atomic Absorption (AA), Mass Spectroscopy (MS), UV-Vis Spectroscopy, TRAACS colorimetry, Gas Chromatography (GC), Nuclear Magnetic Resonance (NMR), Infrared Spectroscopy (IR), Inductively Coupled Plasma – Mass Spectroscopy (ICP-MS), Dissolved Organic Carbon (DOC)
- Cyclic Voltammetry (CV), Electrochemical Impedance Spectroscopy (EIS)
- Anaerobic chamber maintenance
- Mineral synthesis (Fe, Mn oxides)

### Microbiology

- Sterile technique, growth curves
- Light microscopy, Transmission Electron Microscopy (TEM)

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## TECHNICAL SKILLS

### Computing

- Windows environment
- MS Office (Word, Excel, Powerpoint, Access), Corel Wordperfect
- Adobe Acrobat, Photoshop
- HTML, Dreamweaver
- Visual Basic 6.0, Maple
- CorrView 2, ZView 2, SigmaPlot 8.0, Gaussian

### Communication

- Concise report generation
- Accurate technical writing, methodology documentation
- Confident presentation skills

## WORK EXPERIENCE

*Teaching Assistant* September 2006 - Ongoing

Chemistry Department

Laurentian University

- First-year chemistry tutorials
- First-year chemistry labs
- Second-year analytical chemistry lab

*Summer Student* May – August 2006

Ontario Ministry of Agriculture, Food & Rural  
Affairs (OMAFRA)

Full-time

- soil sampling
- modelling of soil nutrient  
management practices

*Student Consultant* September 2004 – April 2006

I.T. Help Desk

Part-time

Computing & Communications Services

University of Guelph

- Technical support for university  
community (WEBmail, wireless internet  
access, web publishing, spam filtering,  
password changes, software downloads,  
requests for assistance with library  
computers and printing, software application  
help, computer virus concerns)
- assisted in HR training seminars

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*Work Study Student* January – April 2006  
Library Archives Part-time  
University of Guelph  
➤ Organization and cataloguing of  
historical theatre materials

*Work Study Student* September – December 2005  
Macdonald Stewart Art Centre Part-time  
➤ Indoor and Outdoor installations  
➤ Art database refinement

*Laboratory Assistant* September 2004 – June 2005  
Bioremediation of Mining Leachate Part-time  
Land Resource Science Department  
University of Guelph  
➤ Co-ordination and facilitation of  
experiments  
➤ Sample Preparation and Analysis  
(AA, UV-Vis, MS, light microscopy,  
TEM)  
➤ Mineral synthesis (Fe, Mn oxides)  
➤ Research and report writing

*Summer Student* May – August 2004  
Surface Properties of Pulp & Paper Biofilms Full-time  
Biology Department  
Lakehead University, Thunder Bay  
➤ Electrochemical experiment design  
and implementation (CV, EIS)  
➤ Biofilm sample collection

*Referee-in-Chief (Volunteer)* June 2002 – April 2004  
Guelph Ringette Association  
➤ Scheduling of local officials  
➤ Recruitment, training of new referees  
➤ Co-ordination of 40 referees for  
annual Guelph tournament

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*Laboratory Assistant* January – August 2003  
Anaerobic Bacterial Respiration of Metals Full-time  
Microbiology Department September 2003 – April 2004  
University of Guelph Part-time

- Cell culture maintenance
- Experimental set-up and monitoring
- Sample analysis (AA, UV-Vis, light microscopy, TEM)

*Co-op Student* January – April 2002  
Arctic Atmospheric Chemistry Full-time  
Meteorological Services  
Environment Canada, Downsview

- Assistance in refurbishing GCs
- Computer/Instrumentation configuration
- Analysis of atmospheric data
- Report generation

*Summer Student* May – August 2001  
Nutrient Management Full-time  
Land Resource Science Department September 2001 – August 2002  
University of Guelph Part-time

- Soil, water, and crop sampling
- Sample analysis (extractions, TRAACS, AA)

## OTHER INTERESTS

*Ringette*: provincial and local referee 10 years, player 14 years  
*Vocal Music*: Guelph Chamber Choir, Arcady, RCM grade 8 voice exam  
*Instrumental Music*: University of Guelph Orchestra oboeist, Cambridge Community Orchestra oboeist, RCM grade 6 piano exam  
*Girl Guides*: Bronze Duke of Edinburgh Award, Canada Cord, All Around Cord  
*Outdoor Activities*: Sailing, Biking, Kayaking, Canoeing

**REFERENCES AVAILABLE UPON REQUEST**