

# '396' Undergraduate Research Project Application Form

Version: 200603

Office for Undergraduate Research in Science  
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## INSTRUCTIONS FOR STUDENTS

- **All fields are required, unless indicated otherwise.**
- Download and print this form. Complete Section C and sign.
- See "How students can apply" instructions in Section B.
- Your supervisor or department will tell you if you are selected for this project. If so, you will receive a code to register for a '396' course on MINERVA.

## SECTION A: SUPERVISOR INFORMATION

**Name:** Isztar Zawadzki **Email:** Isztar.zawadzki@mcgill.ca  
**Phone:** 514-398-1034 **Website:** \_\_\_\_\_  
**Supervisor's Department or Unit:** Atmospheric and Oceanic Sciences **Course Number:** ATOC396

## SECTION B: PROJECT INFORMATION

**Term:** Winter 2007 **Project start & end dates:** January 15 - April 15, 2007  
**Project title:** Study of The Bright Band Height Variability  
**Project description:** From vertically pointing radar (VPR) data accumulated over an eight-years period, the student derives information on the bright band height observed at a given time. By comparing this information to a visual inspection of the corresponding VPR image, the student filters and eliminates errors on the bright band detected height; then computes the bright band height changes over different time intervals. A statistical analysis of the derivative data will determine how fast the bright band height can vary and how it behaves in different weather systems.  
**Prerequisites:** 1 term completed at McGill + CGPA ≥ 3.0; or permission of instructor.  
**Grading scheme:** Assessment of student performance during research, 50%; final report, 50%  
**Other:** Project is partly executed at the JS Marshall Radar Observatory  
**Status:** Mark with an x. **This project is...**  
[ ] Open to applicants  
[ x ] **Already taken; no more positions available this term**  
[ ] Taken, but contact me for other possible projects this term  
**Ethics, safety, and training** Which of the following, if any, is involved? Mark with an x.  
[ ] Animal subjects  
[ ] Human subjects  
[ ] Biohazardous substances  
[ ] Radioactive materials  
[ ] Handling chemicals  
[ ] Using lasers  
**For undergraduate students, ethics and safety compliance is the supervisor's responsibility.**  
**How students can apply:** This project is already taken; no more positions available this term.

## SECTION C: STUDENT INFORMATION. (1) PRINT LEGIBLY AND SIGN. (2) SEE "HOW STUDENTS CAN APPLY" IN SECTION B.

**Name:** \_\_\_\_\_ **McGill ID:** \_\_\_\_\_  
**Email:** \_\_\_\_\_@mail.mcgill.ca **Phone:** \_\_\_\_\_  
**Program:** \_\_\_\_\_ (e.g., B.Sc. Maj. Chem. Minor Biology) **Level:** **(circle one)** U0 / U1 / U2 / U3  
I have not applied for another 396 course in this term.  
**Student signature:** \_\_\_\_\_ **Date:** \_\_\_\_\_

## SECTION D: APPROVALS. (1) PRINT NAMES & SIGN. (2) NOTIFY OFFICE FOR UNDERGRADUATE RESEARCH IN SCIENCE. (3) GIVE STUDENT CODE TO REGISTER FOR COURSE ON MINERVA.

**Supervisor:** \_\_\_\_\_ **Date:** \_\_\_\_\_  
**Unit Chair, Director, or designate** - I certify that this project conforms to departmental requirements for 396 courses. \_\_\_\_\_ **Date:** \_\_\_\_\_

