

## Ethan Billings

### PROFESSIONAL EXPERIENCE

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**Remote Sensing Analyst**, NRCan, Canadian Forest Service, PFC **May – Aug 2024**

- Employed remote sensing techniques with ArcMap and ArcGIS Pro to map deforestation across Canada
- Worked independently and as a team with Co-op students and supervisors
- Got inspired to learn in a workplace full of great scientists!

**Junior Data Scientist**, UBC Data Science Institute **Jan – Aug 2023**

- Researched and developed large language models in Python to classify cancer reports with 98.9% accuracy
- Practiced excellent communication skills in multidisciplinary weekly team meetings
- Refined problem-solving capabilities while troubleshooting model results

**Math, Science, & English Teacher**, Canada Global Education Centre **Jul – Aug 2022, Jan 2024**

- Employed my strong scientific background to teach complex concepts through language barriers
- Developed an attention to detail as I personalized teaching strategies to suit each student

**Music Consultant**, Tom Lee Music **Aug 2019 – Feb 2020**

- Exercised excellent interpersonal skills while assisting clients with large personal investments

### EDUCATION

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**The University of British Columbia** **Vancouver, BC**  
Bachelor of Science; *Major in Mathematics* **Expected May 2026**

### CERTIFICATIONS & SKILLS

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#### Certifications

- Wilderness First Responder (80-hour) **May 2025**
- Level 10 Royal Conservatory of Music **Mar 2024**
- Diplôme d'Études en Langue Française B2 (DELF B2) **Jun 2020**

#### Technical Skills

- **Languages:** Bash, CSS, C#, C++, French, HTML, Java, JavaScript, LaTeX, MATLAB, Python, R
- **Software/Tools:** Anaconda, ArcMap/ArcGIS Pro, ArcPy, Audacity, Bash, Git, Jupyter, Linux, Node.js, Office Suite, VSCode

### PROJECTS

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**Frog Bioacoustics** **Mar – Apr 2025**

- Recorded field audio of frogs and buses to perform acoustical analyses in Audacity

**Birdtopia** [blogs.ubc.ca/birdtopia](https://blogs.ubc.ca/birdtopia) **Jan – Apr 2024**

- Used cartographic and geospatial skills in ArcGIS Pro to find optimal bird box sites near Victoria, BC

**Zombie/Overwintering Fires** **Sep – Dec 2024**

- Presented my research on soil organic layer combustion and propagation

**Machine Learning Data Prediction** **Sep – Nov 2022**

- Developed neural networks using Python and Linux to predict future stock price behaviour

### INTERESTS & HOBBIES

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Camping | Cycling | Rock climbing | Skiing | Performing music | Reading

