

Dave Choi

Personal information

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Phone Number: 778-788-9065

Date of Birth: January 26th, 2000
Canadian Citizen

Overview

Eager and meticulous student enrolled in the BCIT Advanced Diploma in Geographic Information Systems Program, driven to excel in scripting, data management, spatial analysis, and remote sensing. Actively seeking opportunities to apply my proficiency and analytical ability towards providing excellent services and solving diverse problems for various stakeholders.

Education

British Columbia Institute of Technology

Advanced Diploma in Geographical Information Systems (Expected to complete in 2024)

- Acquired and applied knowledge of the fundamentals of geomatics, AutoCAD, scripting python, GIS, ArcGIS, database/ORDBMS, SQL, HTML, and JavaScript.
- Utilized object-relational database management systems to manipulate spatial and non spatial data.

The University of British Columbia

Bachelor of Urban Forestry, Minor in Urban Greenspace Management (2023)

- Graduated with honors.
- Acquired and applied knowledge of the principles of forestry, urban forestry, arboriculture, biology, conservation, ecology, ecosystem management, sustainability, research, and analysis.
- Conducted comprehensive literature reviews on various topics, including urban heat island effect, urban cooling effect, limitations of i-Tree Eco, etc.
- Effectively communicated research findings through written documents and oral presentations.

British Columbia Institute of Technology

Electrical Foundations (2018)

- Covered courses includes Applied Mechanics, Fundamentals of Electricity, Principles of Magnetism, Wiring Methods, Electrical Codes + Plans + Specifications, AC Circuit Analysis, Electronic Devices, Basic Motor Control, and Computer skills + Job Preparation.

Work Experience

The University of British Columbia – Faculty of Forestry (Jan 2023 – May 2023)

Capstone Projects (UFOR 401)

- (1) [Individual Project] Evaluated the impact of urban development on the urban heat island effect at a specific study site on UBC campus using zonal statistics.
- Generated time series data for land surface temperature from Landsat 8 satellite imagery and air temperature from building HVAC sensors.
- Presented research findings effectively to various professors, stakeholders and interested students.
- Conducted statistical validation of land surface temperature data with air temperature data using RStudio.
- Shared results and insights with UBC Social Ecological Economic Development Studies (SEEDS) and UBC Campus and Community Planning.

- (2) [Group Project] Preliminarily assessed heat-vulnerable areas on UBC campus.
- Utilized remote sensing techniques to produce Normalized Difference Vegetation Index Normalized Difference Water Index, and land surface temperature using Landsat 8 satellite data.
- Generated landcover classification of UBC campus using maximum likelihood supervised classification.
- Successfully delegated tasks to group members, ensuring efficient and effective project progress and productivity.
- Presented research findings concisely and comprehensively to capstone class and stakeholders.
- Shared results and insights to UBC Social Ecological Economic Development Studies (SEEDS) and UBC Campus and Community Planning.

Course Marker – CONS 340 Introduction to GIS for Forestry and Conservation

- Appraised students’ assignments and assigned grades.
- Provided timely and detailed feedback on assignments
- Coordinated and communicated with the course instructor to maintain consistency in grading.

Integrated Remote Sensing Studio – UBC Forestry

(May 2022 – Sep 2022)

Work Learn Project Assistant

- Assisted research associates and graduate students by assisting with their project, specifically identifying code issues for R package, rectifying and collecting data.
- Utilized RStudio to identify code issues for an R package developed by a research associate.
- Rectified delineations of tree canopy from provenance tests using ArcGIS Pro for graduate student’s project.
- Contributed to fieldwork for Collecting tree inventory data using field surveying tools, such as Haglof PosTex and hypsometer, Trimble GNSS and GeoSLAM, in support of a graduate student.
- Maintained effective communication with lab members and supervisor, providing regular updates on project progress and identifying potential issues and solutions.

Skills

Software Competency	ArcGIS Pro, ArcGIS online, ArcMap, QGIS, PostgreSQL, pgModeler, AutoCAD, FME Flow, Google Earth Pro, Microsoft office, Google Workspace, LibreOffice, ENVI, Catalyst Professional
Coding Language Competency	Python, R, SQL, HTML, JavaScript
Soft Skills	Attention to detail, adaptability, analytical & critical thinking, presentation, innovative approach to subject, conflict resolution & management

Certifications

Emergency First Aid for Industry (OFA Level 1)	(2022)
Level A CPR/AED	(2022)
General Audience Workplace Hazardous Materials Information System	(2022)

Languages

English: Native Language
 Korean: Intermediate Listener, Speaker, and Reading, Novice Writing

References

References are available upon request.