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Google Scholar Profile: https://scholar.google.com/citations?user=lpBmwaIAAAAJ&hl=en

Experience

Quality Assurance Team Lead (2022-present) **YuJa Inc. (Toronto office), Canada**

- managed the software testing workflow for weekly-to-monthly product releases
- trained new testers in product specific workflows
- documented and developed test cases relevant for web and desktop software applications
- conducted daily stand-ups and scrum-meetings to meet the needs of Agile project management workflow
- helped develop automated testing framework for web and desktop software applications

Compliance Project Manager (2021-present) **YuJa Inc. (Toronto office), Canada**

- liaised with third party auditors to successfully deliver compliance audits like SOC-2, SOC-3 and HIPAA, 1EdTech (Formerly known as IMS Global) LTI Advantage, Caliper Analytics
- completed security questionnaires e.g., HECVAT, HECVAT Lite for relevant clients
- developed and renewed YuJa's accessibility conformance report (VPAT)
- conducted annual security awareness training and incident response training
- managed teams of developers, discussing the scope, timeline, and associated risks on ongoing projects, and communicating them to the management

Quality Assurance Engineer (2021-2022) **YuJa Inc. (Toronto office), Canada**

- conducted end-to-end and integration testing on YuJa's web and desktop software applications
- suggested software features to improve the product's UX-UI and accessibility (based on WCAG guidelines)
- helped setup automation test infrastructure for YuJa's web and desktop applications
- developed automated test cases in **Java** and **C#** to meet the automation requirements of YuJa's engineering team.

Graduate Research and Teaching Assistant (2016-2021) **University of Western Ontario, Canada**

- carried out scientific literature review and data analysis
- developed **Matlab** and **C++** based computer simulations for rock deformation
- develop laboratory course material for undergraduate courses, facilitated teaching sessions
- provided assessment and feedback on scientific essays, learning materials, and exams
- published research at international conferences and high-impact peer-reviewed journals

Graduate Research Assistant (2015-2016) **Indian Institute of Technology (IIT) Roorkee, India**

- carried out geological field mapping using **ArcGIS** software
- carried out quartz grain-size characterization using ImageJ Software
- performed petrographic analysis using optical microscopy and SEM (Scanning Electron Microscope)
- carried out mineral chemical analysis of rock samples using EPMA (Electron Probe Micro Analyzer)
- presented the research work at an international conference

Education

Ph.D. in Geology (2016-2021) **University of Western Ontario, Canada**
With specialization in scientific computing (rock physics numerical modelling)

Master of Technology in Geological Technology (5-year Integrated program: 2011-2016) **Indian Institute of Technology (IIT) Roorkee, India**
With specialization in geological mapping and data analysis.

Technical Skills

- **Programming experience:** C++, C#, HTML, CSS, JavaScript, Java, MATLAB, Python
- **Software experience:** ArcGIS, MOPLA, VPSC, PyLith, SLURM, CorelDraw, PivotalTracker, TestRail, Asana Project Management, HeidiSQL
- **Testing Framework:** Selenium, WinAppDriver, TestNG
- **OS experience:** Linux-Ubuntu, Windows

Academic Honors

- American Geophysical Union Virtual Student Travel Grant for AGU Fall Meeting 2020
- Institute Silver Medal 2016 (IIT Roorkee)
- Student Grant for the AAPG Foundation L. Austin Weeks Undergraduate Grant Program 2015

Academic Publications

- **Bhandari, A**., Jiang, D. (2021). A multiscale numerical modeling investigation on the significance of flow partitioning for the development of quartz c-axis fabrics. Journal of Geophysical Research: Solid Earth, 126, e2020JB021040. https://doi.org/10.1029/2020JB021040
- Jiang, D., **Bhandari, A**., (2018). Pressure variations among rheologically heterogeneous elements in Earth's lithosphere: A micromechanics investigation. Earth and Planetary Science Letters 498, 397-407. https://doi.org/10.1016/j.epsl.2018.07.010
- Saha, L., Frei, D., Gerdes, A., Pati, J., Sarkar, S., Patole, V., **Bhandari, A**. Nasipuri, P. (2016). Crustal geodynamics from the Archaean Bundelkhand Craton, India: Constraints from zircon U–Pb–Hf isotope studies. Geological Magazine, 153(1), 179-192. https://doi.org/10.1017/S0016756815000692
- Nasipuri, P., Saha, L., Hangqiang, X., Pati, J. K., Satyanaryanan, M., Sarkar, S., **Bhandari, A**., & Gaur, Y. (2019). Chapter 31 - Paleoarchean Crustal Evolution of the Bundelkhand Craton, North Central India. In: *Earth's Oldest Rocks* (Van Kranendonk, M. J.,Bennett, V. C..Hoffmann, J. E.,eds.), Elsevier, pp. 793–817. https://doi.org/10.1016/B978-0-444-63901-1.00031-9

Conference presentations

- **Bhandari, A.**, Jiang, D. 2020. A micromechanics based numerical modelling investigation of flanking structures and its application on determining quantitative kinematic information from ductile shear zones. American Geophysical Union, Virtual Fall Meeting December 1-17th (Poster presentation).
- **Bhandari A.**, Jiang D. 2020. A multiscale numerical modelling investigation of flanking structures and its application. GeoUtrecht (virtual), August 24-26th, Utrecht, Netherlands (Oral presentation).
- **Bhandari A.**, Jiang D. 2020. A multiscale numerical modelling investigation of quartz CPO variation due to flow partitioning. GeoUtrecht (virtual), August 24-26th, Utrecht, Netherlands (Oral presentation).
- **Bhandari A.**, Jiang D. 2019. Influence of flow partitioning on quartz CPO fabric: a modeling investigation based on micromechanics. Geological Association of Canada (GAC)-Mineralogical Association of Canada (MAC) Annual Meeting, May 12-15th, Quebec-City, Quebec (Oral presentation).
- **Bhandari A.**, Jiang D. 2018. A numerical modelling investigation of outcrop-to thin section scale quartz CPO variation observed in nature: Flow field partitioning or Activation of slip system? Canadian Tectonic Group 38th Workshop, September 28-30th, Saint-Martyrs-Canadiens, Quebec (Oral presentation)
- **Bhandari A.**, Saha L., Sarkar S, Pati J.K., Nasipuri P, Purohit R. 2016. Interplay between grain size reduction, chemical reaction, and shear localization in lower crustal rocks: A case study from Archean Bundelkhand Craton, North-Central India. European Geosciences Union General Assembly, Vienna (Poster presentation).

Extra-curricular Experience

Volunteer at **Let's Talk Science, Canada** (2018-2021)

- facilitated hands-on science activities for grades 1-12 students in schools and community events

Company Coordinator at **Training and Placement Cell, IIT Roorkee, India** (2014-15)

- organized and facilitated the campus recruitment process for undergraduates (summer internships/permanent jobs).

Relevant coursework

- Intro to Data Science - University of Western Ontario (Winter term 2020)
- Java Programming and Software Engineering Fundamentals Specialization (Duke University- Coursera 2022-ongoing)