

Samuel Gagnon-Hartman

COSMOLOGY · MACHINE LEARNING · LIKELIHOOD-FREE INFERENCE
MULTI-MESSENGER ASTROPHYSICS

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EDUCATION

Sept. 2020 – present	M.Sc. Physics and Astronomy Advisors: John Ruan, Daryl Haggard Centre for Research in Astrophysics of Québec (CRAQ) member.	BISHOP'S UNIVERSITY, SHERBROOKE
Sept. 2017 – May 2020	B.Sc. Physics Thesis Title: Power Management of Hard Drives in the ALBATROS Interferometer Thesis Supervisor: Hsin Cynthia Chiang	MCGILL UNIVERSITY, MONTRÉAL

PUBLICATIONS

JOURNAL PUBLICATIONS

1. **Samuel Gagnon-Hartman**, Yue Cui, Adrian Liu, Siamak Ravanbakhsh. Recovering the Lost Wedge Modes in 21-cm Foregrounds. Pending publication in *Monthly Notices of the Royal Astronomical Society*. Submitted 18/2/2021.
2. **Samuel Gagnon-Hartman**. The Congo Wars: The Curse of Mineral Wealth Explored. *McGill International Review*. Published 30/4/2018. Edited by Benjamin Aloï.

HONOURS AND AWARDS

September 2020	Graduate Entrance Scholarship CAD 10,000 awarded to two starting graduate students at Bishop's University.	BISHOP'S UNIVERSITY FOUNDATION
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SKILLS

Programming	Python, Java Proficient in the machine learning packages tensorflow , pytorch , and keras , as well as the scientific computing packages numpy and scipy .
Languages	English, French

INVITED PROFESSIONAL TALKS

March 2021	HERA General Meeting
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CONTRIBUTED PROFESSIONAL TALKS

January 2021	SAZERAC 21-cm SIP
October 2020	Bishop's University Physics Seminar

POPULAR TALKS

May 2019	Royal Astronomical Society of Canada, Montréal Centre
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SERVICE TO THE COMMUNITY

Sept. 2019 – May 2020	VP External Affairs Represented undergraduate physics students at the faculty level.	MCGILL SOCIETY OF PHYSICS STUDENTS
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Jan. 2018 – Dec. 2019

Payload Designer

MCGILL SPACE GROUP

Designed camera and lens system for an Earth-imaging satellite as part of McGill's submission to the Canadian Satellite Design Challenge.