CV – Alexandre Mercier-Aubin

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Date of Birth	December 16, 1996	**Website**	alexandremercieraubin.com
Nationality	Canadian		

Personal Profile

Graduate student at McGill University in computer science. My fields of study are computer graphics, algorithm design, and constraint programming, .

Education

2020-2024 PhD in Computer Science - McGill University

In progress

2019-2020 M. Sc. in Computer Science - Université Laval

Research in constraint programming with Prof. Claude-Guy Quimper

2017-2019 B. Sc. in Computer Science - Université Laval

honor profile

2014-2017 DEC-BAC in Computer Science - Cégep Lévis-Lauzon

Experience

Present McGill
teaching assistant and AGSEM delegate

Attend office hours, mark exams, and present various guest lectures for the courses on computer graphics, computer animations, and introduction to computer systems.

2020 Université Laval
teaching assistant

Teach the practical aspect of the advanced programming in C++ course. Mark the exams in the computer graphics course. Support students at the help center for computer science students (CARÉ) with questions related to 15 different courses: from beginner programming courses to advanced algorithm design and operating systems.

2018/05, 2018/09 Activision, Beenox
game engine developper intern

Design and program the game engine for Call of Duty: Black Ops 4.
Technologies: DirectX, C++, LUA Contributions: Shaders, LOD formulas, Bugfixes, HUD formulas, cross-platform compatibilities, etc.

2017/01 - **2017/08**	Centre de Robotic et Vision Industrielle *Intern/Programmer* Machine learning applied to Computer Vision.
2016/05 - **2016/09**	Valero, Levis *computer science intern* Translate programs from Visual Basic to C#.
2015/05 - **2015/09**	Consortium Cooperatif de Services Fédératifs *IT Technician* IT support, creating and managing a database, creating a web site, etc.

Prizes and Scholarships

- **Fonds de recherche du Québec (FRQNT): 2nd and 3rd cycle scholarship**
  25 000$ *per year, up to 3 years*

- **Natural Sciences and Engineering Research Council of Canada (NSERC) Alliance Grant**
  15 000

- **Bourse de doctorat Hydro-Québec en Science**
  15 000$ *per year, up to 2 years*

- **School of Computer Science PhD funding, McGill University**
  21 000$ *per year, up to 3 years*
  3 000$ top up from Mechanical Engineering.

- **MITACS accelerate, CRISI**
  39 000$

- **Undergraduate Research Fellowship 2019-2020, Université Laval**
  I declined 6500$

- **Association for Constraint Programming, CP2019**
  450$

Research

All of my work is listed on my website alexandremercieraubin.com/Work

Leadership

- **Leader in various undergraduate team projects**: Gaudrophone, BigData7027, projet2018-eq4 and ComputerGraphics, etc.

- **Team leader in the Valleyfield game creator competition**

Other Projects

- **Game engines**

  One made during college: https://youtu.be/8OPpt3-iIbY
  The source code of a more complex engine: https://github.com/AlexandreMercierAubin/ComputerGraphics

- **Video games I worked on**

  Call of Duty: Black Ops 4: https://www.callofduty.com/ca/en/blackops4
  Proto-Spyder Assault, 48h Valleyfield game dev contest: https://youtu.be/qJjy8b0kuSY
  SansFin, french horror game, collegial project: https://youtu.be/s6vr07Nt1IY

Community and Academic Service

AGSEM Delegate: Act as a delegate for the department of Computer Science at McGill.
V.P. Social at the AGIL: Organize events for the association of graduate student in computer science.
Volunteer at the ASETIN: Volunteer work at the student association of computer science. I've been a bartender, receptionist and helped prepare the initiations.
Volunteer at Lévis: Receptionist at the Water Festival of Lévis.
Student volunteer at SCA 2020: I support the week-long conference by ensuring the smooth functioning of operations in technical paper sessions and main exhibitions.

Referees

Name	Claude-Guy Quimper	**Name**	Paul G. Kry
Company	Université Laval	**Company**	McGill University
Position	Full Professor	**Position**	Full Professor
Contact	Claude-Guy.Quimper@ift.ulaval.ca	**Contact**	kry@cs.mcgill.ca