

# CV – Alexandre Mercier-Aubin

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## Personal Profile

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

## Education

<b>2020-2024</b>	PhD in Computer Science - McGill University <i>ABD</i> GPA: 3.90
<b>2019-2020</b>	M. Sc. in Computer Science - Université Laval <i>Research in constraint programming with Prof. Claude-Guy Quimper</i> GPA: 3.93
<b>2017-2019</b>	B. Sc. in Computer Science - Université Laval <i>honors</i> GPA: 3.73
<b>2014-2017</b>	DEC in Computer Science - Cégep Lévis-Lauzon

## Experience

<b>Present</b>	McGill <i>teaching assistant and AGSEM delegate</i>  Hold office hours, mark exams, and present various guest lectures for the courses on computer graphics, computer animations, and introduction to computer systems.
<b>2020</b>	Université Laval <i>teaching assistant</i>  Teach the practical aspect (weekly labs) of the advanced programming in C++ course. Mark the exams in the computer graphics course. Support students at the help centre for computer science students (CARÉ) with questions related to 15 different computer science courses.
<b>2018/05, 2018/09</b>	Activision, Beenox <i>game engine developer intern</i>  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 compatibility, etc.

- 2017/01 - 2017/08**      Centre de Robotique et Vision Industrielle  
*Intern/Programmer*  
 Machine learning applied to Computer Vision, program robot controllers, and develop a new website for employees.
- 2016/05 - 2016/09**      Valero, Levis  
*computer science intern*  
 Translate programs from Visual Basic to C#.
- 2015/05 - 2015/09**      Consortium de ressources et d'expertises coopératives  
*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 publication are listed on my website: [alexandremercieraubin.com/Work](http://alexandremercieraubin.com/Work)

## Leadership

- **Leader in various undergraduate team projects:** Gaudrophone, BigData7027, and ComputerGraphics, etc.
- **Team leader in the Valleyfield Game Jam**

## Other Projects

### ■ Engines

- Adaptive Rigidification Engine
- A simple computer graphics engine

### ■ Video games I worked on:

- Call of Duty: Black Ops 4
- Proto-Spyder Assault, 48h Valleyfield game dev contest
- SansFin, french horror game, Cegep school project

## Community and Academic Service

**AGSEM Delegate:** Delegate of the Computer Science department 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 student initiations.

**Volunteer at Lévis:** Receptionist at the Water Festival of Lévis.

**Student volunteer at SCA 2020:** Support the week-long conference by ensuring the smooth functioning of operations in technical paper sessions and main exhibitions.

## Referees

<b>Name</b>	Claude-Guy Quimper
<b>Company</b>	Université Laval
<b>Position</b>	Full Professor
<b>Contact</b>	Claude-Guy.Quimper@ift.ulaval.ca

<b>Name</b>	Paul G. Kry
<b>Company</b>	McGill University
<b>Position</b>	Full Professor
<b>Contact</b>	kry@cs.mcgill.ca