

Louis-Éric Mongrain

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My objective is to conduct research in the field of human factors in inhabited and uninhabited aircraft operations using my background in cognitive science, psychology, and aviation.

Education

2021 – 2023

Master of Cognitive Science/ Carleton University, Ottawa, ON

- Advanced Cognitive Engineering (ACE) laboratory
- NSERC CREATE Uninhabited Aircraft Systems Training, Innovation and Leadership Initiative (UTILI)
- P.D. McCormack Scholarship | 2021-2022

2017 – 2021

B.Sc. Cognitive Science & Psychology (Honours)/ University of Toronto, Toronto, ON

- High Distinction (GPA > 3.5/4.0)
- Dean's Scholar List | 2021

2004 – 2007

College Degree – Aviation / CÉGEP de Chicoutimi, Saguenay, QC

- Air Canada Jazz Award
 - Tom Jerrard/Dave Edward Award
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Research Experience

2020 – 2021

Independent Research Project/ Visual Cognition Laboratory, Psychology Department, University of Toronto

Conducted under the supervision of Prof. Jay Pratt and Dr. Matthew Hilchey in partnership with Towson University in Baltimore, MD. This study focuses on the influence of visual attention on value-based decision-making in a multi-alternative, multi-dimensional choice set. My role is to design and conduct the experiment, analyze the results and write the ensuing paper.

2019

Volunteer Research Assistant/ Visual Cognition Laboratory, Psychology Department, University of Toronto

This study focused on visual attention biases against previously attended location in a search array depending on the validity of the preceding trial's response. I was in charge of conducting the experiment, which consisted in briefing the participants, ensuring that they met fitness standards, and operating the laboratory equipment, which consisted in an eye tracking device and two computers.

Professional Experience

2012 – 2020

Airline Pilot & Instructor / Air Transat – Toronto, ON

Pilot in command of 189 to 375 seat airliners operating international flights to the Americas and Europe. I concurrently held a flight simulator instructor position with the responsibility of teaching pilots the specifics and procedures pertaining to the Boeing 737 aircraft.

2013 – 2017

Flight Simulator Instructor / CAE – Montréal, QC

Contractual flight simulator instructor teaching other pilots the specifics and procedures pertaining to the Boeing 737 and Airbus 330 aircrafts. I was also part of the team that designed the B737 training scenarios and objectives based on Boeing and Transport Canada's requirements.

2007 – 2012

Airline Pilot / Air Canada Jazz – Montréal, QC

Second in command of regional airliners flying Air Canada's domestic and U.S. routes. At 20 years old, I became one of the youngest pilots to ever fulfill this position after being granted the Air Canada Jazz Award on its first year offered.

Licenses & Certifications

2011

Airline Transport Pilot License / Transport Canada

Total flight time: 7000 hours

2020

Remotely Piloted Aircraft System (RPAS) Pilot Certificate Advanced Operations & Flight Reviewer/ Transport Canada

Organizations

2020 – Now | Unmanned Systems Canada

2020 – Now | Human Factors & Ergonomics Society - Aerospace Systems Technical Group

2020 – Now | Cognitive Science Society

2020 – Now | Royal Aeronautical Society

2007 – Now | Airline Pilot Association Intl.

1999 – 2004 | Royal Canadian Air Cadets | Gilder Pilot Scholarship (2003)

Languages

French / Native

English / Fluent

Spanish / Functional