

Pénélope Pelland-Goulet

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General information

Postdoctoral fellow

2025 -

Université du Québec en Outaouais, Hull
Ricochet Laboratory
Social and Visual perception Laboratory

ACADEMIC FORMATION

Psychology Doctoral degree

2019 - 2025

Université de Montréal, Montréal

Master's degree in psychology

2017 - 2019

Université de Montréal, Montréal

Bachelor's degree in psychology

2014 - 2017

Université de Montréal, Montréal

College study diploma in social sciences

2011 - 2013

Collège Lionel-Groulx, Sainte-Thérèse

SCHOLARSHIPS AND PRIZES

Scholarships

Interdisciplinary research excellence scholarship (10 000\$)

Sept 2024 - Aug 2025

Centre for interdisciplinary research on brain and learning (CIRCA)

Jean-Marc-Chevrier scholarship (10 000\$)

Summer 2024

Psychology department, Université de Montréal

Doctoral study scholarship (20 000\$)

May 2023 - April 2024

Social Sciences and Humanities Research Council (SSHRC)

Student mobility scholarship (2000\$)

Fall 2023

UdeM International – Université de Montréal

Redaction scholarship (800\$)

Fall 2023

Psychology department, Université de Montréal

Bourse Tremplin – Practical internship (5000\$)

Winter 2023

Fonds de Recherche du Québec en Santé (FRQS)

<https://doi.org/10.69777/330901>

Research scholarship (14 650\$)

Spring 2022

Music, emotions and cognition laboratory (MUSEC)

Redaction scholarship (300\$)

Fall 2022

Psychology department, Université de Montréal

Redaction scholarship (900\$) Psychology department, Université de Montréal	Fall 2021
Interdisciplinary research excellence scholarship (10 000\$) Centre for interdisciplinary research on brain and learning (CIRCA)	Winter 2021
Bourse de financement (2800\$) Psychology department, Université de Montréal	Fall 2020
Prizes & distinctions	
SPS season prize (1000\$) Superior and Postdoctoral Studies – Université de Montréal	Winter 2024
Student Prize Canadian ADHD Ressource Alliance (CADDRA)	Oct. 2020 & Sept. 2023
Academic excellence certificate – Master’s degree Canadian Psychology Society	Fall 2021
EXPÉRIENCES EN RECHERCHE	
Doctoral research supervised by Nathalie Gosselin, PhD, Martin Arguin, PhD & Hélène Brisebois, PhD ADHD in college students: Academic, cognitive and cerebral functioning Muséc Laboratory (Université de Montréal), Alpha-Neuro Center (Collège Montmorency) et Neurocognition vision Lab (Université de Montréal)	Sept. 2019 – 2025
Master’s research supervised by Martin Arguin, PhD Measure of visuo-spatial attention through space and time using event related potentials (ERP) Neurocognition vision Lab (Université de Montréal)	Sept. 2017 – Aug. 2019
Research assistant Muséc laboratory, supervised by Nathalie Gosselin, PhD (Université de Montréal) ▪ Coordination and launch of a study on musical interventions for isolated elderly individuals ▪ Staff training ▪ Neuropsychological and electrophysiological data collection ▪ Management of technological aspects	May 2022 – May 2025
Research assistant Neurocognition vision Lab, supervised by Martin Arguin, PhD (Université de Montréal) ▪ Experimental data collection ▪ Data processing ▪ Staff training	May 2017 – 2023
Evaluations Annual conference of the Société Québécoise de Recherche en Psychologie (SQRP) ▪ Evaluation and selection of submitted abstracts Annual scientific day of the Psychology department (Université de Montréal) ▪ Evaluation of oral and poster presentations	Mars 2022 April 2019
Consultant editor Clinical & Applied Neuropsychology & Journal on identify, interpersonal relations and intergroup relations	2018-2019

- Revision of manuscripts and of editor letters

Research internship

May 2016 – July 2016

Geriatrics University Institute of Montreal Research Center
LINGUA lab, supervised by Dre Simona Brambati, PhD

- Experience acquisition in neuroimaging research methods
- SPSS and SPM softwares
- Production of a research report and scientific poster presentation at a local conference

TEACHING AND MENTORING

Lecturer : Psychology of perception

Winters 2021 & 2022

Psychology department, Université de Montréal

Teaching assistant : Sensory neuropsychology

2018, 2023, 2024, 2025

Psychology department, Université de Montréal

Teaching assistant: Psychology of perception

2019 (x2), 2020, 2023 2024, 2025

Psychology department, Université de Montréal

Student mentoring

Shannie Roberge, BSc in cognitive neurosciences, Université de Montréal

May 2022 - May 2023

- Honors internship & Research assistant
- Supervised tasks : litterature review, ethics approval, creation of audio stimuli, scientific posters, oral presentations, scientific report redaction, creation of a research protocol

Lina Zhiga, BSc in biomedical sciences, Université de Montréal

Summer 2023

- Research internship
- Supervised tasks: litterature review, data analysis, research report redaction, creation of audio stimuli, oral presentation

Florence Vachon, BSc in cognitive neurosciences, Université de Montréal

Summer 2022

- PSY 3008 - Laboratory 2
- Supervised tasks : litterature review, data analysis, scientific poster, oral presentation

Research assistant team supervision

Sept 2019 - July 2022

- Teams of 3 to 8 assistants (varying between semesters); 15 students total
- Supervised tasks : neuropsychological and electrophysiological data collection, participant recruitment, data entry

CLINICAL EXPERIENCES

Compensated experiences

Bourse Tremplin – Practical internship (FRQS)

Feb. 2023 – June 2023

Dre Nathalie Gosselin's Neuropsychology Clinic

- Clinical cases observation
- Neuropsychological tests cotation
- Clinical neuropsychological report redaction

Neurofeedback clinical neurofeedback

Sept. 2016 – Sept 2022

Centre Alpha-Neuro lab, supervised Dre Hélène Brisebois, Collège Montmorency

- Lab coordinator
- Neuropsychological evaluations for students with ADHD or concussions
- Neurofeedback and heart rate variability training for students with ADHD or concussions

Volunteering experiences

Centre Philou (70h)

July 2018 – Sept. 2018

- Providing care for children with multiple disabilities
- Animation (e.g., games, sensory activities, outdoors walks, etc)

Montreal Gingras Lindsay readaptation institute (60h)

Jan. 2016 – June 2016

- Leisure activity organisation and animation
- Social volunteering for patients with spinal cord injury, & strokes

Comities

Department Diversity, Equity and Inclusion (DEI) comity

Jan. 2022 – Sept. 2023

- Chair of the committee
- Communicate with and offer retroactions to the department regarding DEI practices
- Ensure tasks completion, including the creation of an online survey about DEI in the departmental community and the analysis of the collected data
- Organisation of a symposium on DEI research during the annual scientific conference of the psychology department

TRAINING

- **Formations Spirale : EEG Neurofeedback : From fundamental to clinical** April 2024
Theoretical basis of neurofeedback and its clinical applications
- **University Pedagogy Center of Université de Montréal training :**
 - Open science and doctorate : towards a knowledge society, one pillar at a time June 2023
 - Grant application redaction training May 2023
 - Teaching assistant training Jan. 2023
 - Project management training Jan. 2023
- **Brainhack School** May & June 2020
Intensive training in neuroimaging data analysis, coding and machine learning
- **Introduction to machine learning for neuroimaging problems using Scikit-learn and Nilearn** Dec. 2018
Traning given during the Montreal AI & Neuroscience annual conference
- **Heart rate variability and its application for medical and emotional disorders** Oct. 2018
Training given by Moss, PhD, Thought Technology Ltd.
- **Research article evaluation training** Oct. 2016
Training for editors of the Journal on identity, interpersonal relations and intergroup relations

COMMUNICATIONS AND PUBLICATIONS

Scientific articles

Pelland-Goulet, P., Arguin, M., Brisebois, H. & Gosselin, N. [Preprint]. *Resting state EEG in ADHD and neurotypical college students and its relation to gender, age and cognition*. Submitted to Psychophysiology.
<https://doi.org/10.22541/au.175991049.93580772/v1>

Pelland-Goulet, P., Arguin, M., Brisebois, H. & Gosselin, N. [In revision] *Differential impacts of sustained attention and academic attitudes on school performance in ADHD vs neurotypical college students*. Submitted to Journal of Attention Disorders.

Lachance, K-A., **Pelland-Goulet, P.** & Gosselin, N. (2025). *Listening habits and subjective effects of background music in young adults with and without ADHD*. Frontiers in Psychology, 15. <https://doi.org/10.3389/fpsyg.2024.1508181>

Pelland-Goulet, P., Arguin, M., Brisebois, H., & Gosselin, N. (2025). *Visual processing oscillates differently through time for adults with ADHD*. PLoS One 20(9): e0310605. <https://doi.org/10.1371/journal.pone.0310605>

Parent, V., Desmarais, A., Gémus, S., **Pelland-Goulet, P.,** Brisebois, H. & Gauthier, B. (2022). *Quelle est la place des avancées technologiques dans l'intervention neuropsychologique auprès des jeunes avec un TDAH?* Revue de Neuropsychologie. 14(1) : 35-42 doi :10.1684/nrp.2022.0699

Databases

Pelland-Goulet, P., Arguin, M., Brisebois, H. & Gosselin, N. (2024). Temporal sampling of visual processing oscillations in adults with ADHD. Borealis, V1. <https://doi.org/10.5683/SP3/C5QVH6>

Research reports and vulgarisation

Pelland-Goulet, P., Brisebois, H. & Gosselin, N. (2023). *TDAH, santé mentale, cognition et scolarité en temps de pandémie de la COVID-19*. Research report written for the Fonds de Recherche du Québec – Société & Culture. Available at <https://frq.gouv.Qc., Canada.ca/histoire-et-rapport/tdah-sante-mentale-cognition-et-scolarite-en-temps-de-pandemie-de-la-covid-19/>

Abel-Houde, C., **Pelland-Goulet, P.,** Brisebois, H. Gosselin, N. (2023). Le TDA/H chez l'adulte émergent du collégial. Réseau d'Information pour la Réussite Éducative. Available at <https://rire.ctreg.Qc., Canada.ca/le-tda-h-chez-ladulte-emergeant-du-collegial/>

Theses and essays

Pelland-Goulet, P., Arguin, M., Brisebois, H. & Gosselin, N. (2025). *TDAH chez les collégiens : Fonctionnement académique, cognitif et cérébral*. Doctoral thesis, Université de Montréal. [Submitted, in revision]

Pelland-Goulet, P. & Arguin, M. (2020). *Mesure de l'attention visuo-spatiale dans l'espace et le temps par les potentiels reliés aux événements (PRÉ)*. Master's thesis, l'Université de Montréal. Available at https://papyrus.bib.umontreal.ca/xmlui/bitstream/handle/1866/24397/Pelland_Goulet_Penelope_2020_memoire.pdf?sequence=4

Conference abstracts

Arguin, M., Lavoie, M-A., Lévesque, M., Milanova, G., **Pelland-Goulet, P.,** Akzam-Ouellette, M-A. & Tassé, Y. (September 2024). *Features for visual object recognition*. Vision Science Society annual conference, Journal of Vision, St-Pete Beach, Florida, United States of America.

Pelland-Goulet, P., Arguin, M., Brisebois, H. & Gosselin, N. (November 2023). *Temporal sampling as a predictor of ADHD*. Psychonomic Society annual conference, San Francisco, California, United States of America.
https://cdn.ymaws.com/www.psychonomic.org/resource/resmgr/annual_meeting/2023_meeting/PS2023_Abstract_Book_Final_1.pdf

Pelland-Goulet, P., Arguin, M. & Jolicoeur, P. (September 2019). *Can the N2pc ERP component track visual attention?* Vision Science Society annual conference, Journal of Vision, St-Pete Beach, Florida, United States of America.

Oral presentations

Pelland-Goulet, P., Brisebois, H. & Gosselin, N. (Mars 2024). *Collégiens ayant un TDAH : fonctionnement académique, psychologique et neuropsychologique en période de pandémie.* Presented at a knowledge transfer activity with the Programme de recherche sur la persévérance et la réussite scolaire de l'Action Concertée of the Fonds de Recherche du Québec Société et Culture (FRQSC) and the Quebec Education and Higher Education Ministry, Montréal, Qc., Canada.

Pelland-Goulet, P., Brisebois, H. & Gosselin, N. (Janier 2024). *Collégiens ayant un TDAH : fonctionnement académique et psychologique en période de pandémie.* Presented at a knowledge transfer activity at Collège Montmorency, Laval, Qc., Canada.

Pelland-Goulet, P., Arguin, M., Brisebois, H. & Gosselin, N. (May 2023). *Efficacité des accommodements chez les collégiens ayant un TDAH en temps de pandémie.* Annual psychology department scientific conference, Université de Montréal, Montréal, Qc., Canada.

Pelland-Goulet, P., Arguin, M., Brisebois, H. & Gosselin, N. (June 2022). *TDAH, santé mentale et adaptation aux études collégiales en temps de pandémie.* Association Québécoise de Pédagogie Collégiale annual conference, Laval, Qc., Canada.

Pelland-Goulet, P., Brisebois, H. & Gosselin, N. (Decembre 2021). *Fonctionnement cognitif et scolaire des adultes émergents ayant un TDAH en temps de pandémie de COVID-19.* Annual Action Concertée du Programme de Recherche sur la persévérance et réussite scolaire meeting, Québec, Qc., Canada.

Pelland-Goulet, P., Brisebois, H. & Gosselin, N. (October 2020). *Le Programme TRANSATT : Transition-Attention.* Annual Action Concertée du Programme de Recherche sur la persévérance et réussite scolaire meeting, Québec, Qc., Canada.

Roy, J., Vasquez, M., Dupont, C., **Pelland-Goulet, P.,** Brunet, S., Szabo, A., Brisebois, H., Gauthier, B. (April 2019) *Existe-t-il des différences selon le sexe en mémoire de travail des jeunes adultes atteints du trouble du déficit de l'attention/ hyperactivité?* Annual psychology department scientific conference, Université de Montréal, Montréal, Qc., Canada.

Scientific poster presentations

Pelland-Goulet, P., Arguin, M., Brisebois, H. & Gosselin, N. (April 2025). *Attention soutenue, fonctionnement académique et réussite scolaire chez les collégiens avec ou sans TDAH.* Center for Interdisciplinary Research on Brain and Learning scientific research, St-Paulin, Qc., Canada.

Arguin, M., Lavoie, M-A., Lévesque, M., Milanova, G., **Pelland-Goulet, P.,** Akzam-Ouellette, M-A. & Tassé, Y. (May 2024). *Features for visual object recognition.* Vision Science Society (VSS) annual conference, St Pete Beach, Florida, United States of America.

Pelland-Goulet, P., Arguin, M., Brisebois, H. & Gosselin, N. (November 2023). *Temporal sampling as a predictor of ADHD.* Psychonomic Society annual conference, San Francisco, California, United States of America.

Gauthier-Lamer, A-C., Brisebois, H., Houlfort, N., Doucet, M., **Pelland-Goulet, P.** & McKerral, M. (May 2023). *Perceived controlling parenting as a correlate of altered brain functioning.* Self-Determination Theory Center annual conference, Orlando, Florida, United States of America.

Roberge, S., **Pelland-Goulet, P.,** Richard, M. A. & Gosselin, N. (May 2023). *Corpus de balados pour la recherche en neuropsychologie : une étude de validation.* Annual psychology department scientific conference, Université de Montréal, Montréal, Qc., Canada.

Pelland-Goulet, P., Arguin, M., Brisebois, H. & Gosselin, N. (May 2023 & November 2023). *L'échantillonnage temporel comme prédicteur du TDAH*. Société Québécoise de Recherche en Psychologie (SQRP), Sherbrooke, Qc., Canada. & Visual Health Research Network annual conference, Montréal, Qc., Canada.

Lévesque, M., **Pelland-Goulet, P.**, Arguin, M., Brisebois, H. & Gosselin, N. (April 2023). *Altérations des caractéristiques temporelles du traitement visuel dans le TDAH*. Center for Interdisciplinary Research on Brain and Learning annual conference, Montréal, Qc., Canada.

Pelland-Goulet, P., Arguin, M., Brisebois, H., Brunet, S., Cloutier, A. & Gosselin, N. (May 2022). *Études durant la pandémie de COVID-19 : Comment se portent les collégiens ayant un TDAH?* Société Québécoise de Recherche en Psychologie annual conference, Saint-Sauveur, Qc., Canada.

Cloutier, A., **Pelland-Goulet, P.**, Brisebois, H. & Gosselin, N. (October 2021). *Impact des inquiétudes liées à la pandémie de la COVID-19 sur les fonctions attentionnelles et exécutives des adultes émergents avec et sans TDAH*. Association Québécoise des Neuropsychologues annual conference, Montréal, Qc., Canada.

Pelland-Goulet, P., Arguin, M., Jolicoeur, P. (November 2019). *Decoding the spatial locus of attention from ERPs*. Psychonomics Society annual conference, Montréal, Qc., Canada.

Pelland-Goulet, P., Arguin, M., Jolicoeur, P. (May 2019). *Can the N2pc ERP component track visual attention?* Vision Science Society annual conference, Journal of Vision, St-Pete Beach, Florida, United States of America.

Pelland-Goulet, P., Arguin, M., Jolicoeur, P. (Mars 2019). *Decoder l'attention spatiale à partir des ERP*. Société Québécoise de Recherche en Psychologie (SQRP) annual conference, Mont-Tremblant, Qc., Canada.

Brunet, S., **Pelland-Goulet, P.**, Dupont, C., Brisebois, H., Szabo, A. (November 2018). *Efficacité de l'entraînement neurofeedback pour le traitement du TDAH selon le profil EEG et le genre*. NeuroQam annual conference, Université du Québec à Montréal, Montréal, Qc., Canada.

Pelland-Goulet, P., Arguin, M., Jolicoeur, P. (July & November 2018). *The effect of eccentricity on event related potentials in a lateralized detection task*. Canadian Society for Brain, Behavior and Cognitive Science (CSBBCS) annual conference, St-John's, Newfoundland, Canada & NeuroQam annual conference, Université du Québec à Montréal, Montréal, Qc., Canada.

Pelland-Goulet, P., Fortier-St-Pierre, S., Arguin, A. (Mars 2018) *Normes pour l'évaluation de la vitesse de lecture chez l'adulte*. Société Québécoise de Recherche en Psychologie annual conference, Québec, Qc., Canada & Annual psychology department scientific conference, Université de Montréal, Montréal, Qc., Canada.

Pelland-Goulet, P., Fortin, G., Brisebois, H., Szabo, A., Dupont, C. (April 2017). *Correspondance entre les sous-types comportementaux et les patrons d'électricité cérébrale typiques observées chez les collégiens ayant un TDA/H*. Annual psychology department scientific conference, Université de Montréal, Montréal, Qc., Canada.

Jarret, J., Chedid, G., Ferré, P., **Pelland-Goulet, P.**, Rouleau, I., Brambati, S.M. (June 2016). *Neural correlates of speech involved in neuropsychological assessment, an fMRI pilot study*. NeuroSymposium annual conference, Montréal, Qc., Canada.

Dupuis, M., Elfekkak, B., Féral-Basin, C., **Pelland-Goulet, P.**, Racicot, V., Brambati, S.M. (April 2016). *Le volume hippocampique en Maladie d'Alzheimer et démence sémantique*. Annual psychology department scientific conference, Université de Montréal, Montréal, Qc., Canada.