Pénélope Pelland-Goulet

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General information

Postdoctoral fellow 2026 -
Université du Québec en Outaouais, Gatineau, Québec, Canada
Ricochet Laboratory – Dre Annie Bérubé
Social and Visual Perception Laboratory – Dre Caroline Blais

ACADEMIC FORMATION

Psychology doctoral degree 2019 - 2026
Université de Montréal, Montréal, Québec, Canada

Master's degree in psychology 2017 - 2019
Université de Montréal, Montréal, Québec, Canada

Bachelor's degree in psychology 2014 - 2017
Université de Montréal, Montréal, Québec, Canada

College study diploma in social sciences 2011 - 2013
Collège Lionel-Groulx, Sainte-Thérèse, Québec, Canada

SCHOLARSHIPS AND PRIZES

Research grants (n = 1)

Financial support for postdoctoral research (10 000$) April 2026 – April 2027
Centre de Recherche Universitaire sur les Jeunes et les Familles (CRUJeF)

Bourses (n = 11)

Interdisciplinary research excellence scholarship (10 000$) Sept 2024 - August 2025
Center for interdisciplinary research on the 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$) Autumn 2023
UdeM International – Université de Montréal

Redaction scholarship (800$) Autumn 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$) Autumn 2022
Psychology department, Université de Montréal

Redaction scholarship (900$) Autumn 2021
Psychology department, Université de Montréal

Interdisciplinary research excellence scholarship (10 000$) Winter 2021
Center for interdisciplinary research on the brain and learning (CIRCA)

Financing scholarship (2800$) Autumn 2020
Psychology department, Université de Montréal

Prizes and distinctions (n = 4)

SPS season prize (1000$) Autumn 2023
Superior and Postdoctoral Studies – Université de Montréal

Student Award 2020 & 2023 Oct. 2020 & Sept. 2023
Canadian ADHD Ressource Alliance (CADDRA)

Academic excellence certificate – Master's degree Autumn 2021
Canadian Psychological Association

RESEARCH EXPERIENCE

Postdoctoral research (Université du Québec en Outaouais) February 2026 -
Ricochet Laboratory - Dre Annie Bérubé
Social and Visual Perception Laboratory - Dre Caroline Blais

- Creation of a pipeline for the temporal analysis of video recorded facial expressions
- Collaboration with students and researchers on projects related to emotions and facial expression processing
- Lead researcher for a systematic review about facial expression recognition measures for the study of maltreatment
- Matlab formation

Doctoral research supervised by Dre Nathalie Gosselin, Dr Martin Arguin & Dre Hélène Brisebois Sept. 2019 – Feb. 2026
ADHD in college students : Academic, cognitive and cerebral functioning
Musec Laboratory (Université de Montréal), Centre Alpha-Neuro (Collège Montmorency) and Visual neurocognition laboratory (Université de Montréal)

- Project coordination
- Data collection (standardized neuropsychological tests; resting EEG…)
- Schedule, recruitment, and laboratory management
- Statistical analyses
- Staff training

Master's degree supervised by Dr. Martin Arguin Sept. 2017 – August 2019
Measure of visuo-spatial attention through space and time using event related potentials (ERP)
Neurocognition vision laboratory (Université de Montréal)

- Training in the use of EEG, machine learning, and python programming

Research assistant May 2022 –

MUSEC laboratory - Dre Nathalie Gosselin (Université de Montréal)

- Coordination and launch of a double blind randomized controlled study on the effects of a musical intervention for elderly individuals
- Intervention and evaluation material creation
- Staff training
- Data collection for various studies (neuropsychological and EEG measures)
- Management of the technological and material aspects

Research assistant May 2017 – Summer 2023

Visual neurocognition laboratory - Dr. Arguin (Université de Montréal)

- Data collection (visual attention training for individuals with dyslexia; various visual processing experimental tasks)
- Litterature reviews
- Collaboration in the creation of a font for individuals with dyslexia

Evaluations and reviews

Journal of vision Spring 2026

- Peer review of a scientific manuscript

Groupe de Neurosciences Sociales, Cognitives et Cliniques (GNSC2) annual conference February 2026

- Evaluation and selection of submitted abstracts

Société Québécoise de Recherche en Psychologie (SQRP) annual conference March 2022

- Evaluation and selection of submitted abstracts

Annual scientific day of the Psychology department (Université de Montréal) April 2019

- Evaluation of oral and poster presentations

Consultant editor 2018-2019

Clinical & Applied Neuropsychology / Journal on identity, interpersonal relations and intergroup relations

- Revisions of manuscripts and of editor letters

Research internship May 2016 – July 2016

Geriatrics University Institute of Montreal Research Center
LINGUA Laboratory - Dre Simona Brambati

- Experience in fMRI research methods and data collection
- SPM and Matlab 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
Psychology department, Université de Montréal

Teaching assistant: Psychology of perception 2018, 2019 (x2), 2020 & 2023
Psychology department, Université de Montréal

Student mentoring (n = 21) :

Student supervision for my postdoctoral research June 2026 -

- Team of three research assistants
- Ricochet Laboratory (Dre Annie Bérubé)

Shannie Roberge, BSc in cogntive neurosciences, Université de Montréal May 2022 - May 2023

- Honors internship & research assistant
- MUSEC laboratory (Dre Nathalie Gosselin)
- 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
- MUSEC laboratory (Dre Nathalie Gosselin)
- 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 - Laboratoire 2
- MUSEC laboratory (Dre Nathalie Gosselin)
- 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 across semesters); 15 students total
- MUSEC laboratory (Dre Nathalie Gosselin) & Centre Alpha-Neuro (Dre Hélène Brisebois)
- 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 technician Sept. 2016 – March 2020

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

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

Volunteering experiences

Centre Philou (70h) July 2018 – Sept. 2018

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

Montreal Gingras-Lindsay readaptation institute (60h) Jan. 2016 – June 2016

- Leisure activity organization and animation

- Social volunteering for patients with spinal cord injury or strokes

Committees

Department Diversity, Equity and Inclusion (DEI) committee 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
- Organization of a symposium on DEI research during the annual scientific conference of the psychology department

TRAINING

- **Formation by the Centre de Recherche Universitaire sur les Jeunes et les Famillles (CRUJeF)** June 2026
  La revue de littérature (training for conducting systematic reviews)
- **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
  Training given during the Montreal AI & Neuroscience annual conference
- **Heart rate variability and its application for medical and emotional disorders** Oct. 2018
  Training by Dr. Moss, Thought Technology Ltd.
- **Research article evaluation training** Oct. 2016
  Training for editors of the Journal on identity, interpersonal relations and intergroup relations

COMMUNICATIONS & PUBLICATIONS

Scientific articles (n = 6)

Arguin, M., Lavoie, M.-A., Tassé, Y., Lévesque, M., Akzam-Ouellette, M.-A. & **Pelland-Goulet, P.** [Preprint; in revision]. *The features subtending visual object recognition.* Vision Research; accessible on SSRN. https://dx.doi.org/10.2139/ssrn.6416980

Pelland-Goulet, P., Arguin, M., Brisebois, H. & Gosselin, N. [Preprint; in revision]. 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

Robaczewski, A., Harkins, R., **Pelland-Goulet, P.** & Gosselin, N. (2025). *How familiarity, musical affinity and ADHD shape adolescents' perception of musical emotions.* Behavioral Sciences. 15(11), 1570. https://doi.org/10.3390/bs15111570

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. https://10.1684/nrp.2022.0699

Scientific articles - Submitted or in preparation (n = 4)

Robaczewski, A., Harkins, R., **Pelland-Goulet, P.** & Gosselin, N. [Submitted; In revision]. *Beyond the Flanker effect: Adaptive changes in inhibitory performance during adolescence.* Journal of Experimental Child Psychology.

Pelland-Goulet, P., Cousineau, A., St-Pierre, É. & Bérubé, A. [Submitted]. *Validation of the shortened Facial expression Megamix task using children facial stimuli.* Emotion.

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

Pelland-Goulet, P., Fiset, D., Tardif, J., Desjardins, M.-C., & Blais, C. [In preparation]*. Individual differences in facial expression recognition abilities: Visual information utilization is more informative than ocular fixations.*

Databases (n = 1)

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

Research reports and vulgarisation (n = 2)

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.ctreq.Qc, Canada.ca/le-tda-h-chez-ladulte-emergeant-du-collegial/

Theses and essays (n = 2)

Pelland-Goulet, P., Arguin, M., Brisebois, H. & Gosselin, N. (2026). *TDAH chez les collégiens : fonctionnement scolaire, cognitif et cérébral*. Doctoral thesis, Université de Montréal. https://hdl.handle.net/1866/44251

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, Université de Montréal. https://doi.org/10.71781/19223

Conference abstracts (n = 3)

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, USA. https://doi.org/10.1167/jov.24.10.978

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, USA. 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, USA. https://doi.org/10.1167/19.10.101c

Oral presentations (n = 8)

Pelland-Goulet, P., Bérubé, A. & Blais, C. (March 2026). *Analyse temporelle des expressions émotionnelles – Développement d'une technique basée sur les ondelettes.* Symposium at the Journée Scientifique du Groupe de Neurosciences Sociales, Cognitives et Cliniques, Gatineau, Qc, Canada

Pelland-Goulet, P., Brisebois, H. & Gosselin, N. (March 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. (January 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. (December 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 (n = 23)

Pelland-Goulet, P., Fiset, D., Tardif, J. & Blais, C. (2026). *Facial expression recognition : Visual information utilization is more informative than ocular fixations*. Canadian Society for Brain, Behaviour and Cognitive Science annual conference, Toronto, ON, Canada.

Richer, A., Ohene-Agyei, J., **Pelland-Goulet, P.,** Bellerose, A., Mharchat, Z., Berthaud, M. D., Gingras, F., St-Pierre, É., Saumure, C., Caldara, R., Fiset, D. & Blais, C. (May 2026). *Dissociating mental representation from perception in gendered pain and emotional facial expressions: A reverse correlation study using genetic algorithm and machine learning.* Vision Science Society (VSS) annual conference, St. Pete-Beach, Florida, USA.

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*. Centre Interdisciplinaire de Recherche sur le Cerveau et l'Apprentissage annual conference, 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, État-Unis.

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

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. 8th scientific day of the Self-Determination Theory Center, Orlando, Florida, USA.

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). *L'échantillonnage temporel comme prédicteur du TDAH.* Société Québécoise de Recherche en Psychologie (SQRP) annual conference, Sherbrooke, Qc, Canada.

Pelland-Goulet, P., Arguin, M., Brisebois, H. & Gosselin, N. (November 2023). *L'échantillonnage temporel comme prédicteur du TDAH.* Vision Science 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.* Centre Interdisciplinaire de Recherche sur le Cerveau et l'Apprentissage (CIRCA) 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 (VSS) annual conference, St. Pete-Beach, Florida, USA.

Pelland-Goulet, P., Arguin, M., Jolicoeur, P. (March 2019). *Décoder l'attention spatiale à partir des ERP*. Société Québécoise de Recherche en Psychologie 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 scientific day, Université du Québec à Montréal, Montréal, Qc, Canada.

Pelland-Goulet, P., Arguin, M., Jolicoeur, P. (July 2018). *The effect of eccentricity on event related potentials in a lateralized detection task.* Canadian Society for Brain, Behaviour and Cognitive Science (CSBBCS) annual conference, St-John's, Newfoundland, Canada.

Pelland-Goulet, P., Arguin, M., Jolicoeur, P. (November 2018). *The effect of eccentricity on event related potentials in a lateralized detection task.* NeuroQam annual scientific day, Université du Québec à Montréal, Montréal, Qc, Canada.

Pelland-Goulet, P., Fortier-St-Pierre, S., Arguin, A. (March 2018) *Normes pour l'évaluation de la vitesse de lecture chez l'adulte*. Association Québécoise des Neuropsychologues annual conference, Montréal, Qc, Canada.

Pelland-Goulet, P., Fortier-St-Pierre, S., Arguin, A. (March 2018) *Normes pour l'évaluation de la vitesse de lecture chez l'adulte*. 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.