

ASHLEY C. PARR, PHD

CURRICULUM VITAE

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EDUCATION

2018- Present	UNIVERSITY OF PITTSBURGH <i>Postdoctoral Scholar</i>	Pittsburgh, PA, USA
2013- 2018	QUEEN'S UNIVERSITY <i>PhD in Neuroscience candidate</i>	Kingston, ON, Canada
2011- 2013	QUEEN'S UNIVERSITY <i>Mini-Master's in Neuroscience</i>	Kingston, ON, Canada
2005-2011	NIPISSING UNIVERSITY <i>Bachelor of Arts Honors degree in Psychology</i>	North Bay, ON, Canada

ACADEMIC WORK EXPERIENCE

October 2018 - Present	POSTDOCTORAL FELLOW <i>Laboratory for Neurocognitive Development, University of Pittsburgh</i> <ul style="list-style-type: none">• Multimodal, longitudinal study design & analysis• Advanced functional Magnetic Resonance Imaging (fMRI) and Positron Emission Tomography (PET) methodologies
September 2017- September 2018	EXECUTIVE COUNCIL GRADUATE STUDENT REPRESENTATIVE <i>Centre for Neuroscience Studies, Queen's University</i> <ul style="list-style-type: none">• Review and discuss policies surrounding strategic planning, student engagement, community outreach, and management of the Centre• Provide input to the committee on behalf of the students, and responsible for dissemination of information to students within the Centre
July 2016- April 2018	ANIMAL CARE COMMITTEE SUBCOMMITTEE ON PEDAGOGICAL MERIT <i>Queen's University</i> <ul style="list-style-type: none">• Review the Canadian Council on Animal Care (CCAC) policy statements on pedagogical merit of live animal-based teaching and training• Determine whether institutional animal-based teaching and training is essential to meeting learning objectives and outcomes
June 2015- April 2018	ANIMAL CARE COMMITTEE GRADUATE STUDENT REPRESENTATIVE <i>Queen's University</i> <ul style="list-style-type: none">• Review and vote on all animal use protocols for the institution

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- Ensure that the use of animals in research, teaching and testing is acceptable as mandated by the Canadian Council on Animal Care (CCAC)
- Ensure that optimal standards for health and care of animals are maintained
- Experience with planning for a new research facility, as well as preparing for CCAC assessment
- In depth experience with the procedures and policies involved in animal research in a university institution

September 2015-
March 2018

EDUCATION & TRAINING COMMITTEE GRADUATE STUDENT REP.

Queen's University

- Review and discuss policies surrounding the graduate student program in Neuroscience at Queen's University
- Discuss issues ranging from enhancing PhD recruitment to promoting student involvement in outreach programs within the community

September 2013-
January 2017

TEACHING ASSISTANT

Queen's University, Centre for Neuroscience Studies, Dr. David Andrew

- Course: Disorders of the Nervous System (NSCI 429/829)
- Each fall since September 2013 (2013, 2014, 2015, 2016)
- Prepare various course materials
- Assess and evaluate exams and assignments
- Offer out of class support to students
- Liaison between professor, clinicians, and students

December 2013-
January 2018

DEPARTMENTAL ASSISTANT

Dept. of Medicine, Movement Disorders Clinic, Hotel Dieu Hospital

- Execution of research experiment concerning strategic decision-making processes in Parkinson's patients
- Responsible for patient recruitment, experimental design, data collection, and analysis
- Assessment of patient records (e.g., medication dosage and motor scores) and correlation with various experimental variables

March 2017-
October 2018

RESEARCH APPOINTMENT

Dept. of Child and Adolescent Psychiatry, Kingston Health Science Centre

- Execution of research experiment concerning strategic decision-making processes adolescents with Borderline Personality Disorder
- Responsible for experimental design, data collection and analysis
- Assessment of patient records (e.g., severity scores and medication dosage information) and correlation with various experimental variables

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September 2011-
September 2018

RESEARCH ASSISTANT

Queen's University,

*The Neural Basis of Decision-Making, Dr. Mike Dorris & Queen's Eye
Movement Laboratory, Dr. Doug Munoz*

- Design and performance of experiments and subsequent data analysis
- Functional Magnetic Resonance Imaging (fMRI) experimental design, data acquisition & data analysis
- Proficiency with eye tracking and analysis of eye movement data
- Brain Voyager & MatLab proficiency
- In depth clinical experience with patients with neurodegenerative disease (i.e., Parkinson's disease) and neuropsychiatric conditions (i.e., Borderline Personality Disorder)
- Analysis of single nucleotide polymorphisms (SNP) and their relation to behavioural outcomes
- Mentorship and training to undergraduate student (2016-2018)

August 2007-
June 2011

LABORATORY ASSISTANT

Nipissing University, NURON lab, Dr. Andrew Weeks & Dr. Matti Saari

- Mentor and supervise first/second year students in general lab procedures, electron microscopy, experimental design, and analysis
- Performance of specific animal care duties in the lab, which intermittently houses rats; maintenance of clean and healthy housing environment for rats.
- Experience with post surgical care, birthing, and maternal care
- Proficient with behavioural testing and observation
- Proficient with rat neuroanatomy
- Execution of intracardial perfusions, intraperitoneal, intramuscular, and subcutaneous injections, inhalant anaesthetic administration
- Brain extraction and dissection
- Unbiased, design-based stereological techniques and histological practices: Preparation of tissue for light, confocal, and transmission electron microscopy; vibratome and cryostat slicing; tissue dehydration and embedding techniques; various staining methods; tissue sectioning
- Operation of light, confocal and transmission electron microscopy

January 2011-
June 2011

STANDARD OPERATING PROCEDURE REVIEW COMMITTEE

Nipissing University

- Review and evaluate standard operating procedures (SOPs) regarding animal maintenance and specific research practices (for example, surgeries, methods of euthanasia, injections, etc.)
- Submit recommendations for comment to the Animal Care Committee (ACC)

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September 2009 -
June 2011

NIPISSING UNIVERSITY ANIMAL CARE COMMITTEE

Elected Position- Neuroscience Student Researcher

- Review and vote on all animal use protocols for our institution
- Ensure that the use of animals in research, teaching and testing is acceptable as mandated by the Canadian Council on Animal Care (CCAC)
- Ensure that optimal standards for health and care of animals are maintained
- Experience with planning for a new research facility, as well as preparing for CCAC assessment
- In depth experience with the procedures and policies involved in animal research in a university institution

September 2010-
June 2011

TEACHING ASSISTANT

Nipissing University, Dr. Andrew Weeks

- Courses: Behavioural Neuroscience (PSYC 2605), Sensation (PSYC 2906) and Perception (PSYC 2907)
- Facilitate small group discussions
- Assess and evaluate exams and assignments
- Offer out of class support and tutor individual students
- Liaison between professor and students

PUBLICATIONS AND ONGOING PROJECTS

Parr, A.C., Calabro, F., Larsen, B., Tervo-Clemmens, B., Foran, W., Olafsson, V., & Luna, B.

Dopamine-related striatal neurophysiology is associated with specialization of frontostriatal reward circuitry through adolescence. *Manuscript under review at Neuron (Submitted: 03/20/2020, NEURON-D-20-00504).*

Parr, A., Calancie, O., Coe, B., Khalid-Khan, S., & Munoz, D. High levels of impulsivity and emotional dysregulation are associated with better strategic decision-making performance in adolescents with Borderline Personality Disorder. *Manuscript under review at Journal of Personality Disorders (Submitted: 03/30/2020, 2020-JPD-001833).*

Luna, B., Ravindranath, O., Larsen, B., & **Parr, A.** (In Press). The Brain Basis Underlying the Transition from Adolescent to Adulthood. In O. Houdé & G. Borst (Eds.). *The Cambridge Handbook of Cognitive Development* (pp. xx-xxx). Cambridge, UK: Cambridge University Press.

Parr, A. C., Coe, B.C., Munoz, D.P., & Dorris, M.C. (2019). A novel paradigm to dissociate the core components of mixed-strategy decision-making from non-strategic decisions in humans. *European Journal of Neuroscience*, 00, pp. 1-14, doi: 10.1111/ejn.14586.

Diehl, M., Lempert, K., **Parr, A.**, Ballard, I., Steele, V., & Smith, D (2018). Toward an integrative perspective on the neural mechanisms underlying persistent maladaptive behaviors. *European Journal of Neuroscience*, 48(3), pp. 1870-1883, doi: 10.1111/ejn.14083

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Parr, A., Coe, B., Pari, G., Marras, C., Masellis, M., & Munoz, D. The effects of dopaminergic single nucleotide polymorphisms on medication induced cognitive dysfunction in Parkinson's patients during an oculomotor decision-making task. *Manuscript in Preparation.*

PRESENTATIONS

Poster Presentations and Abstracts

- **Parr, A.,** Calabro, F., Tervo-Clemmens, B., Larsen, B., Olafsson, V., Foran, W., & Luna, B. (2019, November). Striatal dopamine contributions to the development of frontostriatal connectivity in a reward learning context. Poster session presented at the 2019 Developmental and Affective Neuroscience (DANS) meeting. Pittsburgh, PA, U.S.A.
- **Parr, A.,** Calabro, F., Tervo-Clemmens, B., Larsen, B., Foran, W., & Luna, B. (2019, August). Striatal dopamine contributions to the development of frontostriatal connectivity in a reward learning context. Poster session presented at the 2019 Flux Congress. New York, NY, U.S.A.
- Calancie, O., **Parr, A.,** Huang, J., Brien, D., Coe, B.C., Booij, L., Khalid-Khan, S., & Munoz, D.P. (2019, July). Eye tracking to probe executive functioning and sensorimotor deficits in adolescents showing early signs of psychiatric illness. Poster session presented at the Gordon Research Seminar & Gordon Research Conference on Eye Movements. Lewiston, ME, USA.
- **Parr, A.,** Calabro, F., Tervo-Clemmens, B., Larsen, B., Foran, W., & Luna, B. (2019, June). Effect of dopamine on developmental changes in frontostriatal circuitry in a reward learning context. Poster session presented at the 2019 Organization for Human Brain Mapping conference. Rome, Italy.
- **Parr, A.,** Calabro, F., Tervo-Clemmens, B., Foran, W., & Luna, B. (2019, May). Striatal dopamine contributions to the development of frontostriatal connectivity in a reward learning context. Poster session presented at the 2019 Postdoc Data & Dine symposium at the University of Pittsburgh. Pittsburgh, PA, U.S.A.
- Calancie, O., **Parr, A.,** Brien, D., Coe, B.C., Booij, L., Khalid-Khan, S., & Munoz, D. (June, 2019). Eye tracking to probe executive functioning and sensorimotor deficits in adolescents showing early signs of psychiatric illness. Poster presented at the Canadian Institutes of Health Research (CIHR) – Canadian Student Health Research Forum. Winnipeg, Manitoba, Canada.
- Calancie, O., **Parr, A.,** Brien, D., Coe, B.C., Booij, L., Khalid-Khan, S., & Munoz, D. (2018, November). Characterizing response inhibition deficits in adolescents showing early signs of borderline personality disorder using an oculomotor task. Poster session presented at the Society for Neuroscience Annual Meeting (SfN). San Diego, California, U.S.A.
- **Parr, A.,** Calancie, O., Coe, B., Khalid-Khan, S., & Munoz, D. (2018, August). Development of mixed-strategy decision making in adolescents with and without borderline personality disorder. Poster session presented at the 2018 Flux Congress. Berlin, Germany.
- Calancie, O., **Parr, A.C.,** Brien, D., Coe, B.C., Booij, L., Khalid-Khan, S., & Munoz, D. (2018, August). Response inhibition deficits in adolescents showing early signs of borderline personality disorder. Poster session presented at the 2018 Flux Congress. Berlin, Germany.

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- Calancie, O., **Parr, A.C.**, Brien, D., Coe, B.C., Booij, L., Khalid-Khan, S., & Munoz, D. (2018, May). Characterizing response inhibition deficits in adolescents showing early signs of borderline personality disorder using an oculomotor task. Poster session presented at the 2018 Queen's University Health Sciences Research Trainees Day. Kingston, ON, Canada.
- **Parr, A.**, Riek, H., Pari, G., & Munoz, D. (2017, October). Examining genetic polymorphisms, and the effect of dopaminergic treatment, in Parkinson's patients during an oculomotor mixed-strategy decision-making task. Poster session presented at the 2017 Society for Neuroeconomics conference. Toronto, ON, Canada.
- **Parr, A.**, Coe, B., Pari, G., & Munoz, D. (2017, July). Examining the effects of dopaminergic treatment on cognitive function in Parkinson's patients during an oculomotor strategic decision-making task. Poster session presented at the 2017 Gordon Research Conference on Eye Movements. Lewiston ME, U.S.A.
- **Parr, A.**, Coe, B., Pari, G., & Munoz, D. (2017, June). Quantifying reinforcement learning deficits in early stage Parkinson's patients using a strategic decision-making task. Poster abstract accepted for the 2017 International Parkinson's & Movement Disorder Congress meeting. Vancouver, BC, Canada.
- **Parr, A.**, Coe, B., Pari, G., & Munoz, D. (2016, July). Dysfunctional decision-making processes in patients with Parkinson's disease during a strategic game. Poster session presented at the Gordon Research Conference on the Neurobiology of Cognition. Newry, Maine, U.S.A.
- **Parr, A.**, Coe, B., Pari, G., & Munoz, D. (2016, June). Impairment of decision-making processes in patients with Parkinson's disease during a strategic game. Poster session presented at the 2016 International Parkinson's & Movement Disorder Congress meeting. Berlin, Germany.
- **Parr, A.**, Coe, B., Pari, G., & Munoz, D. (2016, May). Decision-making in Parkinson's patients during a strategic game. Poster session presented at the 2016 International Symposium of the Groupe de recherche sur le système nerveux central (GRSNC) *Neuroscience of Decision-Making* conference. May 2016. Montreal, QC, Canada.
- **Parr, A.**, Coe, B., Pari, G., & Munoz, D. (2016, May). Dysfunctional decision-making processes in Parkinson's patients playing a strategic game. Poster session presented at the 2016 Canadian Neuroscience Association (CAN) meeting. Toronto, ON, Canada.
- **Parr, A.**, Coe, B., Pari, G., & Munoz, D. (2015, October). Decision-making in Parkinson's patients during a strategic game. Program No. 352.18/BB.58. *Neuroscience Meeting Planner. Online*. Poster session presented at the 2015 Society for Neuroscience Annual Meeting, Chicago, IL, U.S.A.
- **Parr, A.**, Coe, B., Dorris, M., & Munoz, D. (2014, November). A core brain network for mixed-strategy decision-making. Program No. 555.21/TT40. *Neuroscience Meeting Planner. Online*. Poster session presented at the 2014 Society for Neuroscience Annual Meeting, Washington, DC, U.S.A.
- **Parr, A.**, Coe, B., Dorris, M., & Munoz, D. (2014, July). A common brain network for different motor effectors during strategic decision-making. Poster session presented at the Gordon Research Conference on the Neurobiology of Cognition. Newry, Maine, U.S.A.
- **Parr, A.**, Coe, B., Dorris, M., & Munoz, D. (2014, June). A core brain network for strategic decisions. Poster session presented at the NSERC Collaborative Research and Training Experience (CREATE) International Research Training Group Retreat. Marburg, Germany.

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- **Parr, A.**, Coe, B., Dorris, M., & Munoz, D. (2014, May). A brain network for strategic decision-making. Poster session presented at the Canadian Association for Neuroscience Annual Meeting. Montreal, QC, Canada.
- **Parr, A.**, Coe, B., Dorris, M., & Munoz, D. (2014, April). Different effectors recruit the same network during strategic decision-making. Poster session presented at the 2014 Society for the Neural Control of Movement Annual Meeting, Amsterdam, NL.
- **Parr, A.**, Coe, B., Munoz, D. & Dorris, M. (2013, November). A distributed functional network underlying strategic decision-making. Program No. 286.22/JJ42. *Neuroscience Meeting Planner. Online*. Poster session presented at the 2013 Society for Neuroscience Annual Meeting, San Diego, CA, U.S.A.
- **Parr, A.**, Coe, B., & Dorris, M. (2013, July). A functional network underlying strategic decision-making. Poster session presented at the Gordon Research Conference on Eye Movements & Gordon Research Seminar on Eye Movements, Stonehill College, Easton, MA, U.S.A.
- **Parr, A.**, Coe, B., & Dorris, M. (2013, May). A distributed brain network underlying strategic decision-making. Poster session presented at the Canadian Association for Neuroscience 7th Annual Meeting, Toronto, ON, Canada.
- **Parr, A.**, McInnis, H., Coe, B., & Dorris, M. (2012, October). An introduction to the neural basis of strategic decision-making. Poster session presented at the Queen's University Annual Neuroscience Research Day, Kingston, ON, Canada.
- Weeks, A., Enahwo, O., Henderson, Y., **Parr, A.**, Goodwin, S., Stillar, A., & Saari, M. (2011, November). Synaptic changes in the medial preoptic area following the onset of maternal behaviour in the rat. Program No. 728.10. *Neuroscience Meeting Planner, online*. Poster session presented at the 2011 Society for Neuroscience Annual Meeting, Washington, DC, U.S.A.
- **Parr, A.**, Goodwin, S., Henderson, Y., Stillar, A., & Weeks, A. (2010, November). Fear conditioning is associated with changes in synaptic numbers in the nucleus accumbens of the rat. Program No. 706.13. *Neuroscience Meeting Planner, online*. Poster session presented at the 2010 Society for Neuroscience Annual Meeting, San Diego, CA, U.S.A.
- Young, R., Seary, C., **Parr, A.**, Stillar, A., & Saari, M. (2010, November). Antalarmin reduces anxiety in the elevated plus maze but not latency to immobility in the forced swim task. Program No. 364.2. *Neuroscience Meeting Planner, online*. Poster session presented at the 2010 Society for Neuroscience Annual Meeting, San Diego, CA, U.S.A.
- Langan, C.J., Henderson, Y., **Parr, A.**, Stillar, A., & Saari, M. (2009, October). Paradoxical PND10 sensitivity to isoflurane and neonatal 6-OHDA or 5,7DHT on anaesthesia onset. Program No. 812.16. *Neuroscience Meeting Planner, online*. Poster session presented at the 2009 Society for Neuroscience Annual Meeting, Chicago, IL, U.S.A.

Presentations at Scientific Meetings

- **Parr, A.** Striatal dopamine contributions to the development of fronto-striatal connectivity in a reward learning task. Flash talk presented at the 2019 Flux Congress. August, 2019. New York, NY, U.S.A.
- **Parr, A.** Dopamine contributions to normative adolescent neurocognitive development through cognitive control of eye movements. Presented at the 2019 Gordon Research Conference (GRC) on Eye Movements. July, 2019. Lewiston ME, U.S.A.

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- **Parr, A.** Using neuroeconomics to assess decision-making across the lifespan and in neurological disease. Presented at Nipissing University's "Celebrating 40 years of Neuroscience at Nipissing University" Conference. July, 2017. **Audience: Researchers**
- Discussion leader for Gordon Research Seminar on Eye Movements session on **Emerging Methods in Health and Disease**. July 2017. Lewiston ME, U.S.A.
- **Parr, A.** Examining the effect of dopaminergic treatment on cognitive function in Parkinson's patients during an oculomotor strategic decision-making task. Presented at the Queen's University Annual Meeting for Health Science Research Trainees. May 2017. Kingston, Ontario. Audience: Research scientists and trainees (Awarded the Dean's award for the talk)
- **Parr, A.** Dysfunctional decision-making in Parkinson's patients playing a strategic game. Presented at the CAPnet-CPS Satellite Symposium at the Canadian Association for Neuroscience (CAN) meeting. May 2016. Toronto, Ontario. Audience: Research scientists
- **Parr, A.** Comparing mixed-strategy decision-making in Parkinson's patients and healthy populations. Presented at the NSERC Collaborative Research and Training Experience (CREATE) International Research Training Group Retreat. June 2015. Toronto, Ontario. Audience: Research scientists
- **Parr, A.** A core brain network for strategic decisions. Presented at the NSERC Collaborative Research and Training Experience (CREATE) International Research Training Group Retreat. June 2014. Marburg, Germany. Audience: Research scientists
- **Parr, A.** A brain network for strategic decision-making in humans and non-human primates. Presented at the Canadian Association for Neuroscience meeting Satellite Symposium 'Linking primate brain circuits to behaviour: advancements and applications'. May 2014. Montreal, QC. Audience: Research scientists
- **Parr, A.** The neural basis of strategic decision-making. Presented at the NSERC Collaborative Research and Training Experience (CREATE) Program Computational Approaches to Neuroscience - Action Control & Transformations (CAN-ACT) Retreat. September 2012, Nobleton, ON, Canada. Audience: Research scientists

Presentations as Guest Speaker

- **Parr, A.** Adolescent plasticity underlying the transition to adulthood. **Audience: Students.** University of Pittsburgh, "COUN 2729 – Human Development across the lifespan" graduate level class in the School of Rehab and Mental Health Counseling (Coordinator: Dr. Dana Rofey). October 2019, Pittsburgh, PA.
- **Parr, A.** Re-examining the DSM: Classifying neuropsychiatric disorders on the basis of transdiagnostic symptoms. **Audience: Students.** Queen's University, "NSCI 444/844: Controversies in Neuroscience" undergraduate/graduate level class (Coordinator: Dr. David Andrew). January 2017, March 2018, Kingston, ON, Canada.
- **Parr, A.** Reward and Decision-Making: The Overlapping Mechanisms of Addiction and Obesity. **Audience: Students.** Queen's University, "NSCI 444/844: Controversies in Neuroscience" undergraduate/graduate level class. January 2015, 2016, Kingston, ON, Canada. Invited lecturer.
- **Parr, A.** Fear conditioning is associated with changes in synaptic numbers in the nucleus accumbens of the rat. **Audience: Students/Researchers.** Presented to Nipissing

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University's "PSYC 2716: Emotion" undergraduate class. February 2011, North Bay, ON, Canada.

Other Talks

- **Parr, A.** Striatal tissue iron is associated with maturational changes within the mesolimbic dopaminergic system throughout adolescence. Presented at the University of Pittsburgh's Psychology Department *Cognitive Brown Bag* seminar series. November, 2019, Pittsburgh, PA, U.S.A. **Audience: Cognitive psychology students and faculty**
- **Parr, A.** Investigating strategic choice in Parkinson's disease. Presented at the Queen's University Centre for Neuroscience *Friday Fights* seminar series. November, 2015, Kingston, ON, Canada. **Audience: Researchers**
- **Parr, A.** The neurobiology of strategic choice. Presented at the Queen's University Biological Communication Centre (QBCC) seminar series. March, 2015, Queen's University, Kingston, ON, Canada. **Audience: Researchers**
- **Parr, A.** A discussion of free will, personal responsibility, society and self. Presented at the Queen's University Clinical Journal Club series. April 2015, Centre for Neuroscience Studies, Queen's University, Kingston, ON, Canada.
- **Parr, A.** Neuropathology of Parkinson's disease. **Audience: Seniors at retirement home.** Presented in association with the Queen's University Neuroscience Outreach Program's 'Mind and Body Health Series'. March 2015, The Royale Retirement Home, Kingston, ON, Canada.
- **Parr, A.** The Neural Basis of Plasticity. **Audience: Seniors at retirement home.** Presented in association with the Queen's University Neuroscience Outreach Program's 'Mind and Body Health Series'. January 2015, The Royale Retirement Home, Kingston, ON.
- **Parr, A.** Neural Plasticity: The Brain that Changes. **Audience: Seniors at retirement home.** Presented in association with the Queen's University Neuroscience Outreach Program's 'Mind and Body Health Series'. March 2014, The Royale Retirement Home, Kingston, ON, Canada.
- **Parr, A.** A multidisciplinary approach to studying strategic decision-making. **Audience: Researchers from various fields.** Presented at Queen's University 'Material Matters' Seminar Series. February 2014, Kingston, ON, Canada.
- **Parr, A.** Investigating the human neural basis of strategic decision-making. **Audience: Researchers.** Presented at the Queen's University Centre for Neuroscience *Friday Fights* Seminar Series. January 2014, Kingston, ON, Canada.
- **Parr, A.** The neural basis of strategic decision-making: An fMRI approach. **Audience: Researchers.** Presented at the Queen's University Physiology Seminar Series. April 2013, Kingston, ON, Canada.
- **Parr, A.** Synaptic changes resulting from the hormonal disruption and/or induction of maternal behaviour in the rat. **Audience: Researchers.** Presented at the Nipissing University Psychology Department Seminar Series. May 2011, North Bay, ON, Canada.

PROFESSIONAL EXPERIENCE

Coordinated and led weekly Journal Club (Laboratory of Neurocognitive Development (LNCD), University of Pittsburgh, Pittsburgh, PA, U.S.A., October 2018-2019)

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- Organized, coordinated, and hosted weekly journal club meetings within the to discuss relevant literature and ongoing research projects within the lab
- Invited and coordinated visiting and inhouse speakers covering a range of topics including multimodal neuroimaging, developmental neuroscience, cognition, and longitudinal analysis.

Gordon Research Seminar (GRS) on Eye Movements Chair (July 2017- July 2019)

- Planning, coordinating, and recruitment for the 2019 Gordon Research Seminar (GRS) on Eye Movements, a two-day, student-run satellite meeting preceding the main Gordon Research Conference (GRC)
- Developing scientific program, session topics, selecting speakers and discussion leaders
- Developing and leading a mentorship session focused on emerging open science practices in neuroscience
- Approaching industry partners for sponsorship, co-writing a successfully funded NIH proposal, managing conference budget
- Managing social media accounts for the Gordon Research Conference (GRC) and Seminar (GRS)
- On-site coordination of academic and social events, introducing sessions, ensuring sessions ran on time, facilitating discussion among trainees and senior faculty members

Coordinated and led weekly Friday Fights Seminar Series (Queen's University, Kingston, ON, Canada, 2015-2018)

- Organized, coordinated, and hosted weekly seminars with participating Queen's researchers and trainees to discuss, and constructively critique, ongoing research projects
 - Weekly series concerning interdisciplinary research topics within the fields of action control, decision-making, sensory-motor systems, as well as various topics within neuroscience and cognitive psychology

Led weekly IRTG meetings for the NSERC Collaborative Research and Training Experience (CREATE) International Research Training Group (IRTG 2014/15)

- Led the Queen's end of a weekly seminar series meetings with researchers from various Canadian (York, Western and Queen's) and German (University of Giessen and Marburg) institutions
 - Interdisciplinary research topics within the field of action control, multisensory perception and internal representations of action-space

Completion of the 2013 Summer School in Computational Sensory-Motor Neuroscience (CoSMo; Queen's University, Kingston, ON, Canada, 2013)

- Acquired skills related to computational modelling of decision-making, learning, motor control, and sensory-motor transformations
- Developed skills in mathematical modelling techniques relevant to understanding brain function, dysfunction, and treatment

Participation in the NSERC Collaborative Research and Training Experience (CREATE) International Research Training Group (IRTG 2014 & 2015)

- Participated in weekly seminar series meetings with researchers from various Canadian (York, Western and Queen's) and German (University of Giessen and Marburg) institutions

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- Interdisciplinary research topics within the field of action control, multisensory perception and internal representations of action-space
- Gained extensive networking experience and potential for international collaboration with researchers from various backgrounds

SCHOLARLY ACTIVITIES

January 2019 – Present Reviewer for Cerebral Cortex

SUPERVISORY/MENTORSHIP ACTIVITIES

In all cases, mentored in reviewing scientific literature, basic data analysis using Matlab, RStudio, and SPSS, interpreting results, and scientific writing and presentation.

September 2016-
September 2017

SUPERVISION OF DIRECTED RESEARCH UNDERGRADUATE STUDENT
Queen's University

- Supervised a 4th year Life Sciences undergraduate student (H. Riek, Directed Research Project) through a collaborative project investigating how genetic variants affect cognitive ability in Parkinson's Patients
- Specifically, basic analysis linking variants in dopaminergic genes to behavior
- H. Riek won the Life Sciences Thesis Award for her involvement in the project and is now completing a PhD in Neuroscience at Queen's University

January 2019-
September 2019

SUPERVISION OF DIRECTED RESEARCH UNDERGRADUATE STUDENT
University of Pittsburgh

- Supervised a 4th year Psychology undergraduate student (N. Fuhr, Directed Research Project) through a collaborative project investigating the relation of dopamine indices (tissue iron, PET data) to indicators of arousal and blink rate in adolescents
- Specifically, basic analysis linking individual differences in dopamine indices to behavior
- N. Fuhr is now enrolled in the Clinical Rehabilitation and Mental Health Counseling Program at the University of Pittsburgh

January 2020-
Present

SUPERVISION OF DIRECTED RESEARCH UNDERGRADUATE STUDENT
University of Pittsburgh

- Supervised a 4th year Neuroscience undergraduate student (N. Warszawski, Directed Research Project) through a collaborative project investigating how risk taking behavior in adolescents corresponds to developmental changes in dopamine function
- Specifically, basic analysis linking individual differences in dopamine indices to behavior obtained during the Balloon Analogue Risk Task (BART), a well-validated assessment of real world risk-taking behaviors

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SERVICE TO THE COMMUNITY

September 2011-
September 2018

NEUROSCIENCE OUTREACH PROGRAM

Queen's University

- Develop community projects that focus on mental health, aging, and physical rehabilitation
- Educate and work with groups ranging from aging populations, to young children and secondary school students interested in learning about the central nervous system

Specific Activities:

- Organized public lecture series 2015 (topics include: Obesity & addiction)
- Lecturer for the Senior Lecture Series held at local retirement homes (2013, 2014, 2015)
- Brain awareness day activity leader/demonstrator (Dissection and Histology Session) 2013, 2014, 2015
- Science Rendezvous (K-Rock Centre, Kingston ON) activity leader/demonstrator 2014
- Science Rendezvous (K-Rock Centre, Kingston ON) activity leader/demonstrator 2012, 2013 & 2014
- Special award judge for the Frontenac, Lennox & Addington Science Fair 2013 & 2015 (Kingston, ON)
- Let's Talk Science (Queen's University) activity leader/demonstrator 2012

September 2015-
September 2018

COORDINATOR FOR THE SENIORS LECTURE SERIES

Queen's University

- Organizer, coordinator, and speaker in a series of 5-6 seminars at local retirement homes in the Kingston community
- Topics are relevant to the aging population, and range from Parkinson's disease, brain plasticity, stroke, and motor systems

2013-2016

SEVEN-EIGHT ENRICHMENT DAY STUDIES (SEEDS) PROGRAM

Queen's University

- Involved in organizing and executing a one week/year enrichment course for students in grades 7-8
- Involved in leading multiple hands-on sessions designed to teach students about the central nervous system
- Session one involved teaching brain anatomy and dissection techniques in sheep brains
- Session two involved teaching histological techniques and microscopy. This included brain slicing, staining, light microscopy, and identifying neuronal structures from various different stains

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January 2014

GRADUATE STUDENT FAIR NEUROSCIENCE REPRESENTATIVE

Queen's University

- Advised undergraduate students about potential programs and careers in neuroscience

September 2011-
September 2014

ST. MARY'S TRAVEL CLUB

Kingston, ON - Providence Care St. Mary's of the Lake

- Monthly visits with a team of graduate students to facilitate access to engaging activities for patients in rehabilitative care, geriatric care, continuing care and palliative care
- Prepare and execute hands-on activities ranging from arts and crafts, including seasonal and festive activities (I.e. Pumpkin carving), to casino nights
- Ensured patients' well-being through encouraging mental exercise and hands-on activity

April 2010-
December 2010

NORTH EAST MENTAL HEALTH CENTRE VOLUNTEER

North Bay, ON - Forensic Ward

- Biweekly, I provided support, access to activities, and companionship to patients
- Helped organize group activities and participated in community outings for patients
- Ensured patients' well-being through encouraging mental exercise and physical activity
- Gained first hand understanding of the experiences of various clinical populations within the facility

FUNDING

- Parkinson Canada Pilot Project Grant entitled "Using pharmacogenetics to identify biomarkers for cognitive impairment in early PD" that was funded in the 2018-2020 funding cycle (\$50,000). *PI: Dr. Douglas Munoz*

AWARDS

- Gordon Research Conference Travel Award *July 2019 (\$500)*
- Queen's University, Dean's Award for best oral presentation at the Twentieth Annual Scientific Meeting for Health Sciences Research Trainees (Faculty of Health Sciences) *May 2017 (\$400)*
- Queen's University, R.S. McLaughlin Doctoral Fellowship *September 2016- August 2017*
- University of Rochester School of Medicine, Ernest J. Del Monte Institute for Neuroscience and Silvio O. Conte Center Travel Award (For *Persistent Maladaptive Behaviors: Why We Make Bad Choices* conference) *September 2016*
- Queen's University, Dr. Robert John Wilson Fellowship *September 2014-August 2015*
- Queen's University, Gordon Wallace Swan Memorial Fellowship *February 2014*
- Queen's University, R.S. McLaughlin Doctoral Fellowship *September 2013- August 2014*

ASHLEY C. PARR, PHD

- NSERC CREATE CAN-ACT Gordon Research Conference Travel Award *July 2013 (\$500)*
- Queen's University Centre for Neuroscience Entrance Scholarship *September 2011*
- Nipissing University Faculty Association (NUFA) Learning Opportunity Award
November 2008, 2009, 2010

MEMBERSHIP IN PROFESSIONAL AND SCIENTIFIC SOCIETIES

- Flux Society for Developmental Cognitive Neuroscience
- Organization for Human Brain Mapping (OHBM)