

**Titles for 2011-2012 Undergraduate Thesis (Psych 4D06-4D09) Research Projects**

**Supervisors within the Department of Psychology, Neuroscience & Behaviour**

| Thesis Title  | Supervisor      |      | Student               | Programme                       |
|---|-----------------|------|-----------------------|---------------------------------|
| Interpreting The Results: Do Antidepressants Actually Increase Neurogenesis In Rodent Hippocampi?   | Dr. Andrews     | 4D09 | Hughes, Adam          | SCI: H PSYCH-NEUROSCI&BEHAV     |
| Do Analytically Difficult Problems Induce Sad Mood?   | Dr. Andrews     | 4D09 | Sutradhar, Sangeeta   | SCI: H BIOLOGY & PSYCH          |
| Ecological Correlates Of Parental Care In Plainfin Midshipman   | Dr. Balshine    | 4D09 | Pereira, Amanda       | SCI: H PSYCH-NEUROSCI&BEHAV     |
| Cognitive Consequences Of Living In A Contaminated Environment In Round Goby From Hamilton Harbour  | Dr. Balshine    | 4D09 | Tomczyk, Dominika     | SCI: H PSYCH-NEUROSCI&BEHAV     |
| Investigating The Linkages Between Binge Alcohol Consumption And Neurogenesis In The Hippocampus  | Dr. Becker      | 4D09 | Goldstein, Aaron      | SCI: H BIOLOGY & PSYCH          |
| Examining The Effects Of Depression, Hormones, And Various Lifestyle Factors On A Neurogenesis-Sensitive Cognitive Task                                 | Dr. Becker      | 4D09 | Hebscher, Melissa     | SOC SCI: H PSYCH-NEUROSCI&BEHAV |
| The Effects Of Neurogenesis Correlates On A Spatial Pattern Separation And Working Memory Task  | Dr. Becker      | 4D09 | Lau, Catherine        | SCI: H PSYCH-NEUROSCI&BEHAV     |
| Investigating Putative Correlates Of Hippocampal Neurogenesis And Their Effects On Performance In A Visual R  | Dr. Becker      | 4D09 | Minervini, Deanna     | SCI: H BIOLOGY & PSYCH          |
| Modelling Place Cells Through Machine Learning  | Dr. Becker      | 4D09 | Shaw, Mark            | SCI: H PSYCH-NEUROSCI&BEHAV     |
| The Effect Of Stimulus Type on Audio-Visual Temporal Order Judgments and Aging  | Dr. Bennett     | 4D09 | Sirek, Paul           | SCI: H PSYCH-NEUROSCI&BEHAV     |
| The Neural Basis Of Writing Music   | Dr. Brown       | 4D09 | Hartle, Brittany      | SCI: H BIOLOGY & PSYCH          |
| Stress-Induced Levels Of 17β-Estradiol And Progesterone In Ovariectomized And Intact Female Mice: Implications For Stress-Induced Pregnancy Disruption. | Dr. deCatanzaro | 4D09 | Gould, Kaitlin        | SCI: H PSYCH-NEUROSCI&BEHAV     |
| 17β-Estradiol As A Potential Primary Reproductive Hormone For Inducing The Whitten Effect In Mice   | Dr. deCatanzaro | 4DD6 | Ha, Yu Bin            | SCI: H BIOLOGY & PSYCH          |
| Fitness Consequences Of Forced Copulation In Fruit Flies  | Dr. Dukas       | 4D09 | Jongsma, Katherine    | SCI: H PSYCH-NEUROSCI&BEHAV     |
| Plasticity Of Fruit Fly Learning Ability Based On Environmental Complexity  | Dr. Dukas       | 4D09 | Kim, Seungjoo         | SCI: H BIOLOGY & PSYCH          |
| Learning In The Context Of Sexual Behaviour In Male Drosophila Melanogaster   | Dr. Dukas       | 4D09 | Klotz, Lisa           | SCI: H BIOLOGY & PSYCH          |
| The Effects Of Political Women's Voice Pitch On Voting Behaviour  | Dr. Feinberg    | 4D06 | Trentin, Ebony        | SOC SCI: H PSYCH-NEUROSCI&BEHAV |
| Do Singers Alter Their Pitch In Response To Romantic Cues?  | Dr. Feinberg    | 4D09 | De Souza, Randal      | SCI: H PSYCH-NEUROSCI&BEHAV     |
| Women's Facial Symmetry: Changes Throughout The Menstrual Cycle   | Dr. Feinberg    | 4D09 | Do Couto, Lisa        | SOC SCI: H PSYCH-NEUROSCI&BEHAV |
| Will Playing Competitively Or Cooperatively Make Me Sexier? The Relationship Between Behavioral Masculinity And Attractiveness                          | Dr. Feinberg    | 4D09 | Michel, Justin        | SCI: H PSYCH-NEUROSCI&BEHAV     |
| The Roles Of Self-Esteem And Self-Perceived Attractiveness In Female Facial Masculinity Preferences   | Dr. Feinberg    | 4D09 | Rose, Erin            | SCI: H PSYCH-NEUROSCI&BEHAV     |
| Assessing Body Size Of Human Adult Speakers Through Modal, Whispered, And Sinewave Speech   | Dr. Feinberg    | 4D09 | Taylor, Kristin       | SOC SCI: H PSYCH-NEUROSCI&BEHAV |
| Synaptotagmin-1 Expression In Glutamate-Releasing Immature Inhibitory Terminals Of The Sound Localization Circuit                                       | Dr. Gillespie   | 4D09 | Lee, Sau-Young        | SCI: H BIOLOGY & PSYCH          |
| Spatial And Temporal Integration Of Vibrotactile Stimuli  | Dr. Goldreich   | 4D09 | Adeolu, Mobolaji      | SCI: H BIOLOGY & PSYCH          |
| A Touchy Subject: Evaluating Tests Of Spatial Resolution  | Dr. Goldreich   | 4D09 | Mao, Oliver           | ART&SCI: H ARTS & SCI & PSYCH   |
| fMRI Activation And Habituation In Comorbid Anxiety, Depression And Irritable Bowel Syndrome  | Dr. Hall        | 4D09 | Rieder, Amber Dawn    | SCI: CONTINUING                 |
| Effects Of Antidepressant Treatment on Amygdala Volume in Peri/Postmenopausal Women with Major Depressive Disorder                                      | Dr. Hall/Frey   | 4D09 | Hu, James             | SCI: H BIOLOGY & PSYCH          |
| The Rate Of Disfluencies As A Potential Indicator Of Language Deficiencies In Children With Selective Mutism  | Dr. Humphreys   | 4D09 | Falkauskas, Kaitlin   | SCI: H PSYCH-NEUROSCI&BEHAV     |
| Contextual And Conceptual Interference  | Dr. Kim         | 4D09 | Toth, Esther          | SOC SCI: H PSYCH-NEUROSCI&BEHAV |
| The Development Of Motion Tuning And Of Sensitivity To Motion In School-Aged Children   | Dr. Lewis       | 4D09 | Aziz, Madiha          | SCI: H BIOLOGY & PSYCH          |
| More Than Averageness: Attractiveness Judgments In Children And Adults  | Dr. Lewis       | 4D09 | Ravelo, Marlette      | SCI: H PSYCH-NEUROSCI&BEHAV     |
| Convexity As A Cue To Figure-Ground Segmentation In Children  | Dr. Lewis       | 4D09 | Slugocki, Michael     | SCI: H PSYCH-NEUROSCI&BEHAV     |
| A Comparison Of Face Discrimination In Adults With And Without Synaesthesia   | Dr. Maurer      | 4D09 | Hedayatmofidi, Parisa | SCI: H BIOLOGY & PSYCH          |
| The Effect Of Prolonged Exercise On Contrast Sensitivity And Visual Acuity In Senior Adults   | Dr. Maurer      | 4D09 | Marcininova, Ivana    | SCI: H PSYCH-NEUROSCI&BEHAV     |
| Testing Alternative Models Of Face Space Using Aftereffects For Facial Identity   | Dr. Maurer      | 4D09 | Patel, Priya          | SCI: H BIOLOGY & PSYCH          |
| Implicit Top-Down Control Over Priming Of Pop-Out   | Dr. Milliken    | 4D06 | D'Ascenzo, Michael    | HUMAN: H ENGLISH & PSYCH        |
| To Detect Or Not To Detect: The Influence Of Context On Object Detection And Identification   | Dr. Milliken    | 4D09 | Ali, Muna             | SCI: H PSYCH-NEUROSCI&BEHAV     |
| Expectation Regarding T1 Difficulty On The Attentional Blink  | Dr. Milliken    | 4D09 | Scopa, Patrick        | SCI: H BIOLOGY & PSYCH          |
| The Role Of Myelin And Astrocytes In Terminating Critical Period Plasticity In The Human Primary Visual Cortex  | Dr. Murphy      | 4D09 | Arasaratnam, Sharini  | SCI: H PSYCH-NEUROSCI&BEHAV     |
| The Role Of ECM Proteins In Bringing About A Close To The Critical Period Of Human Visual Cortex Development  | Dr. Murphy      | 4D09 | Balsor, Justin        | SCI: H BIOLOGY & PSYCH          |
| Test Re-Test Reliability Of The Orientation-In-Noise Task   | Dr. Murphy      | 4D09 | Manhas, Arvin         | SCI: H PSYCH-NEUROSCI&BEHAV     |
| Understanding Of Pedagogical Interactions In 14- To 16-Month-Old Infants As Third-Party Observers   | Dr. Rutherford  | 4D06 | Li, Angela            | SCI: H PSYCH-NEUROSCI&BEHAV     |
| Social Cognitive Development: Does Early Social Orienting Ability Predict Theory Of Mind Ability?   | Dr. Rutherford  | 4D09 | Roby, Rachel          | SCI: H PSYCH-NEUROSCI&BEHAV     |

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|---|----------------|------|----------------------|---------------------------------|
| Auditory Motion: Nine-Month-Old Infants' Detection Of Lateral Motion Using Dynamic, Multisensory Information      | Dr. Rutherford | 4D09 | Van Dyck, Elizabeth  | ART&SCI: H ARTS & SCIENCE & PSY |
| Stability Of Temperament And Personality In Adults Who Were Born At Extremely Low Birth Weight                    | Dr. Schmidt    | 4D09 | Dubey, Ankita        | SCI: H PSYCH-NEUROSCI&BEHAV     |
| Test-Retest Reliability Of Regional Electroencephalogram (EEG) Alpha (8-13 Hz) Power And Asymmetry In Adolescents | Dr. Schmidt    | 4D09 | Winegust, Adira      | ART&SCI: H ARTS & SCI & PSYCH   |
| The Use Of Horizontal Information Predicts The N170 Inversion Effect  | Dr. Sekuler    | 4D09 | Hashemi, Ali         | SCI: H BIOLOGY & PSYCH          |
| Effects Of Visual And Vestibular Integration On P300 Morphology During Motion Simulation                          | Dr. Shedden    | 4D09 | Chan, Tim            | SCI: H BIOLOGY & PSYCH          |
| Time Of Day Effects On Covert Attention Orientation   | Dr. Shore      | 4D09 | Creber, Kirsten      | SOC SCI: H PSYCH-NEUROSCI&BEHAV |
| Choosing A Manual Action Produces Visual Prior-Entry  | Dr. Shore      | 4D09 | Kendal, Adam         | SCI: H PSYCH-NEUROSCI&BEHAV     |
| The Role Of Observer Locomotion In Spatial Updating   | Dr. Sun        | 4D09 | Iarocci, Melanie     | SCI: H PSYCH-NEUROSCI&BEHAV     |
| Processing Of Musical Tonality In 24-Month-Old Infants  | Dr. Trainor    | 4D09 | Rayner, Ramone       | SCI: H PNB - MUSIC COGNITION    |
| Development Of Polyphonic Sound Perception During Infancy   | Dr. Trainor    | 4D09 | Cruikshank, Harrison | ART&SCI: H ARTS & SCI & PSY     |
| Fine-Grained Sound Localization In Human Adults Indexed By Mismatch-Negativity                                    | Dr. Trainor    | 4D09 | Li, Yue              | SOC SCI: H PSYCH-NEUROSCI&BEHAV |
| Assessing Children's Sensitivity To Musical Beat And Metric Structure   | Dr. Trainor    | 4D09 | McCormick, Andrew    | ART&SCI: H ARTS & SCIENCE       |
| Examining The Influence Of Training On Dual-Task Processing And The Backwards Compatibility Effect                | Dr. Watter     | 4D09 | Danis, Lila          | SOC SCI: H PSYCH-NEUROSCI&BEHAV |
| The Influence Of Negative Affect On Memory Performance During Mind Wandering                                      | Dr. Watter     | 4D09 | Rosner, Tamara       | SCI: H BIOLOGY & PSYCH          |

### External Supervisors outside the PNB Department

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|--|------------------|------|------------------------|----------------------------------|
| Applying The Theory Of Planned Behaviour To Consuming Seven Servings Of Fruits And Vegetables In First Year University Students  | Dr. Bray         | 4D06 | Meikle, Natasha        | SOC SCI: H PSYCH & SOCIOL        |
| The Role Of Self-Regulation And Self-Regulatory Training On Exercise   | Dr. Bray         | 4D06 | Sferazza, Alex         | SCI: H PSYCH-NEUROSCI&BEHAV      |
| An Event-Related Potential Study On Mandarin Chinese Classifiers   | Dr. Connolly/Dr. | 4D09 | Lam, Janice            | SCI: H BIOLOGY & PSYCH           |
| K6 Scores Function as Predictors for Intent to use Mental Health Information Resources   | Dr. Cunningham   | 4D06 | Khan, M. Sajjad        | SCI: H PSYCH-NEUROSCI&BEHAV      |
| A Model Of Reactance In A Conjoint Study Of Knowledge Translation In Educators   | Dr. Cunningham   | 4DD6 | Campbell, Katelyn      | SCI: H BIOLOGY & PSYCH           |
| What Factors Predict Whether A Parent Will Seek Interim Mental Health Resources For Their Child?                                 | Dr. Cunningham   | 4DD6 | Groen, Mirjam          | SCI: H BIOLOGY & PSYCH           |
| Emotion Regulation In Children & Adolescents   | Dr. Frey         | 4D06 | Hosseini, Shera        | SCI: H PNB                       |
| Circadian Rhythm changes from Pregnancy to Postpartum: A Pilot Study   | Dr. Frey         | 4D06 | Lenchshyn, Jessika     | SOC SCI: COMB H PSY&SOCIOL       |
| Emotional Reactivity In Pregnant Women At Risk For Postpartum Depression- A Pilot Study  | Dr. Frey         | 4D06 | Wong, Queenie          | SCI: H PSYCH-NEUROSCI&BEHAV      |
| Biomarkers In Bipolar Disorder   | Dr. Frey         | 4DD6 | Sehmbi, Manpreet       | SCI: H BIOLOGY & PSYCH           |
| Coping With Chronic Pain: A Retrospective Data Analysis Of The Chronic Pain Coping Inventory (CPCI)                              | Dr. Hapidou      | 4D06 | Mohamed Ail, Ola       | SCI: H PSYCH-NEUROSCI&BEHAV      |
| The Effects Of Time Delay And Stimulus Similarity On The Effects Of Priming On Children With Autism                              | Dr. Hundert      | 4D06 | Chang, Grace           | SCI: H PSYCH-NEUROSCI&BEHAV      |
| Construct Validity Of The Cognitive Items Of The Resident-Assessment Instrument – Mental Health (RAI-MH)                         | Dr. King         | 4DD6 | Polakowska, Monika     | SCI: H BIOLOGY & PSYCH           |
| General And Modality-Specific Components Of Automaticity In Word Recognition   | Dr. Kuperman     | 4D06 | Ramsey, Emma           | SCI: H PSYCH-NEUROSCI&BEHAV      |
| Implementation Of Daily Activity Schedules For Adults With Acquired Brain Injuries Living In Group Homes                         | Dr. Linder       | 4D06 | Davidson, Emily        | SCI: H PSYCH-NEUROSCI&BEHAV      |
| The Effects Of Neurogenesis Correlates On A Spatial Pattern Separation And Working Memory Task                                   | Dr. Mamak        | 4D06 | Lau, Jacqueline        | SOC SCI: H PSYCH-NEUROSCI&BEHAV  |
| Neural Correlates Of Autobiographical Memory Retrieval For Emotional Experiences   | Dr. McKinnon     | 4DD6 | Zuchelkowski, Isabelle | SCI: H BIOLOGY & PSYCH           |
| Moderators Of Trait Mindfulness  | Dr. McNeely      | 4D06 | Krishnamoorthy, Swapna | SCI: H PSYCH-NEUROSCI&BEHAV      |
| Social Functioning And Schizotypy: The Role Of Emotional Abilities In Social Functioning   | Dr. McNeely      | 4D06 | Roudbarani, Flora      | SCI: H PSYCH-NEUROSCI&BEHAV      |
| The Effect Of Context Exposure In Facilitating Transfer In Medical Education   | Dr. Norman       | 4D06 | Chaudhary, Zarah       | SCI: H PSYCH-NEUROSCI&BEHAV      |
| Changes In Overt Indicators Of Anxiety Across A Speech Task In Individuals With Social Anxiety Disorder                          | Dr. Rowa         | 4D06 | Chang, Felicia         | SCI: H PSYCH-NEUROSCI&BEHAV      |
| Distress Tolerance In Obsessive-Compulsive Disorder, Hoarding, And Healthy Controls  | Dr. Rowa         | 4D06 | Yip, Jennifer          | SCI: H PNB - MUSIC COGNITION     |
| Conversational Remembering Activity For Cognitively Impaired Older Adults  | Dr. Ryan         | 4DD6 | Mahendran, Sindhura    | SCI: H BIOLOGY & PSYCH           |
| Investigating The Role Of Temporal Structure On The Efficacy Of Auditory Alarms In Medical Devices                               | Dr. Schutz       | 4D06 | Gillard, Jessica       | SOC SCI: H PSYCH-NEUROSCI&BEHAV  |
| Tone Or Dot? Influence Of The Amplitude Envelope On Audiovisual Temporal Order Judgments   | Dr. Schutz       | 4D06 | Podolak, Olivia        | SCI: H PSYCH-NEUROSCI&BEHAV      |
| The Role Of Continuous Motion In Audio-Visual Integration Using The Marimba Illusion   | Dr. Schutz       | 4D06 | Vaisberg, Jonathan     | SCI: H PSYCH-NEUROSCI&BEHAV      |
| Sentence Processing And The Reading Span Task: The Effect Of Word Order On Working Memory Capacity                               | Dr. Service      | 4D06 | Prashad, Nirvana       | SCI: H PSYCH-NEUROSCI&BEHAV      |
| The Effect Of Lexical Stress On Rapid Naming Time  | Dr. Service      | 4DD6 | Premananth, Sainica    | SCI: H BIOLOGY & PSYCH           |
| Collaborative Development Of A Universal Modular Cognitive-Behavioural Anxiety Management Program With Secondary School Students | Dr. Short        | 4D06 | Howarth, Claire        | SOC SCI: H PSYCH-NEUROSCI&BEHAV  |
| The Role Of 17-B Estradiol In Mood Regulation During Pregnancy: A Review Of Current Literature                                   | Dr. Steiner      | 4D06 | Wright, Lauren         | SOC SCI: H PNB - MUSIC COGNITION |
| Correlates Of Unintended Pregnancy In A Canadian Immigrant Population  | Dr. Steiner      | 4DD6 | Gerics, Amy            | SCI: H BIOLOGY & PSYCH           |
| Relationship Between Online Social Networking And Spelling Accuracy  | Dr. Strojinska   | 4DD6 | Kim, Moonyong          | SCI: H BIOLOGY & PSYCH           |
| Collective Behaviour Seen In Foraging: A Computer Simulation   | Dr. Sullis       | 4D06 | Timotin, Titus         | SCI: H PSYCH-NEUROSCI&BEHAV      |
| Investigation Of Memory Functioning In Nonverbal Children With Autism Spectrum Disorder  | Dr. Summers      | 4D06 | Chang, Melanie         | SOC SCI: H PSYCH-NEUROSCI&BEHAV  |

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| Associations Between Parent-Child Relationships And The Change In Selfcare As Diabetes Type 1 Patients | Dr. Van Blyderveen | 4D06 | Khogiani, Surab | SCI: H PSYCH-NEUROSCI&BEHAV |
| Transition From Pediatrics To Adult Care   | Dr. Watton-Allen   | 4D06 | Mansour, Marham | SCI: H PSYCH-NEUROSCI&BEHAV |
| Labeling Colours, Shapes, And Objects Based On Categorical Discrimination In Children With Autism      | Dr. Woodbury-Smith | 4DD6 | Choi, Yenny     | SCI: H BIOLOGY & PSYCH      |
| Familial Patterns Of Broader Phenotypes In Communicative Impairments Of Autism Spectrum Disorders      |                    |      |                 |                             |