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PROFESSIONAL CONTACT Research Computing Associate
Computational Brain Anatomy (CoBrA) Laboratory & Cerebral Imaging Center
Project Lead – Douglas Neuroinformatics Platform
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RESEARCH INTERESTS Structural neuroimaging. Image processing, classification, and registration. Pipeline design and optimization for standardized image processing. High performing computing.

EDUCATION **McMaster University**, Hamilton, ON, Canada
Doctor of Philosophy — Engineering Physics **2014-06**

- Thesis : An Investigation into the Role of Energy and Symmetry at Epitaxial Interfaces
- Adviser : Dr. John S. Preston

Bachelor of Engineering — Engineering Physics **2007-05**

- Awarded with Distinction

HONOURS AND AWARDS Canadian Open Neuroscience Platform Research Scholar — \$50,000 **2019**
Nano Ontario Conference Best Poster **2011-10**
McMaster Materials Science & Engineering Graduate Conference Best Presentation Delivery **2010-09**
NSERC Postgraduate Scholarship D3 — \$63,000 **2009–2011**
Ontario Graduate Scholarship — Doctoral — \$15,000 — *Declined* **2009**
Ontario Graduate Scholarship — Masters — \$15,000 **2008**

TEACHING EXPERIENCE **Douglas University Mental Health Institute, CIC**, Montreal, QC, Canada
Research Computing Associate – CIC Software Seminar Series **2014-08 – Present**
Software Carpentry, Online
Volunteer Instructor **2012-11 – Present**
McMaster University, Hamilton, ON, Canada
Instructor — MATLS 1M03, Introduction to Materials Science **2014-06 – 2014-08**
Instructor — ENG PHYS 2CE4, Computational Methods for Engineering Physics **2014-01 – 2014-04**
Teaching Assistant — ENG PHYS 3F04 Introduction to Solid State **2012-09 – 2012-12**
Teaching Assistant — ENG PHYS 4A06 Senior Undergraduate Thesis Project **2008-09 – 2012-05**
Teaching Assistant — ENG PHYS 4U04 Advanced Computer Laboratories **2008-09 – 2009-05**

RESEARCH EXPERIENCE **McMaster University**, Hamilton, ON, Canada
Laboratory Manager **2009-05 – 2014-05**
Summer and Co-op Student Supervisor **2009-09 – 2014-05**

JOURNAL REVIEWS PLOS ONE **2019**
Nature Scientific Data **2018**
Elsevier Applied Surface Science **2015**

SERVICE	Centre de la Petite Enfance Funville , Verdun, QC, Canada Board Member	2019-05 – 2021-05
	Software Carpentry , Online Maintainer and Developer	2012-11 – Present
	McMaster University , Hamilton, ON, Canada Ex-Officio Member - Engineering Physics Graduate Advisory Committee Engineering Physics Professorial Search Committee NanoGiga 2009, 14th Canadian Semiconductor Technology Conference Graduate Student Association – Phoenix Executive Committee	2013-12 – 2014-08 2010-11 – 2011-01 2009-08 2009-09 – 2013-12
	Nano Ontario , ON, Canada Board Member At-Large - Chair, Communications Committee	2013-03 – 2015-01
	Center for Inquiry , Toronto, ON, Canada Committee for the Advancement of Scientific Skepticism	2010-10 – 2012-08

BIBLIOMETRICS Published Peer-Reviewed Articles : 78 (4 first author, 2 senior author)
 Abstracts in Conference Proceedings : 53
 Invited Presentations : 11
 h-index : 20
 i10-index : 35

PATENTS S. M. Jovanovic, **G. A. Devenyi**, and J. S. Preston. “Arbitrarily thin ultra smooth film with built-in separation ability and method of forming the same”. 2014026292:A1. 2014-02. URL: <https://patentimages.storage.googleapis.com/74/37/22/79228e821a36e5/W02014026292A1.pdf>.

INVITED PRESENTATIONS J. Near and **G. A. Devenyi**. *MRS Simulation & Preprocessing Using the FID-A Toolkit*. MR Spectroscopy Study Group, ISMRM Virtual Meetings. Online, 2017-07. URL: <https://www.ismr.org/virtual-meetings/virtual-meetings-archive/>.

G. A. Devenyi and R. Schwartz. *Skills for Scientific Computing*. Software Carpentry Workshop, BIO5 Institute & iPlant Collaborative, Arizona State University. Tempe, AZ, USA, 2015-05. URL: <https://rachelss.github.io/2015-04-18-ASU/>.

G. A. Devenyi, ..., I. Kozlov et al. *Skills for Scientific Computing*. Software Carpentry Workshop, Department of Physics, McGill University. Montreal, QC, CA, 2015-01. URL: <https://igor-kozlov.github.io/2015-01-10-mcgill/>.

J. D. Blischak, ..., **G. A. Devenyi** et al. *Skills for Scientific Computing*. Software Carpentry Workshop, Faculty of Medicine, University de Montreal. Saint-Hyacinthe, QC, Canada, 2014-11. URL: <https://dhaine.github.io/2014-11-06-fmv/>.

G. A. Devenyi. *L^AT_EX for Preparation of Scientific Documents and Theses*. Department of Electrical and Computer Engineering, McMaster University. Hamilton, ON, Canada, 2014-06.

G. A. Devenyi and J. Ory. *Skills for Scientific Computing*. Software Carpentry Workshop, Statistical Computing Unit, Cornell University. Ithaca, NY, USA, 2014-06. URL: <https://gdevenyi.github.io/2014-06-04-cornell/>.

G. A. Devenyi. *L^AT_EX for Preparation of Scientific Documents and Theses*. Department of Medical Physics, McMaster University. Hamilton, ON, Canada, 2014-05.

G. W. Wilson and **G. A. Devenyi**. *Skills for Scientific Computing*. Software Carpentry Workshop, Department of Physics & Astronomy, McMaster University. Hamilton, ON, Canada, 2014-05. URL: <https://gdevenyi.github.io/2014-05-05-mcmaster/>.

G. A. Devenyi. *L^AT_EX for Preparation of Scientific Documents and Theses*. School of Graduate Studies, McMaster University. Hamilton, ON, Canada, 2013-05.

G. A. Devenyi. *L^AT_EX for Preparation of Scientific Documents and Theses*. School of Graduate Studies, McMaster University. Hamilton, ON, Canada, 2012-11.

G. A. Devenyi. *The Future of Photovoltaics: Next Generation Materials and Devices at McMaster University Engineering Physics*. IEEE Hamilton Chapter Monthly Meeting. Hamilton, ON, Canada, 2012-05.

- M. Blüma, ..., **G. A. Devenyi**, ..., C. Babiloni et al. “Heterogeneity Of Local Volume Changes In Taups2app Mouse Model Of AD”. en. In: *Alzheimer’s Association International Conference*. Amsterdam, Netherlands.
- D. Benrimoh, ..., **G. A. Devenyi**, ..., S. Ducharme et al. *Trans-Diagnostic Structural Imaging In Psychosis: A Comparison Across Schizophrenia, Frontotemporal Dementia, and Alzheimer’s Disease*. Organization For Human Brain Mapping 2022. Online, 2022-06.
- N. Blostein, ..., **G. A. Devenyi**, ..., M. M. Chakravarty et al. *Relationship Between Heritability And Latent Dimensions Of Behaviour In The Striatum, Thalamus And Globus Pallidus*. Society For Neuroscience 2021. Online, 2021-11.
- G. A. Devenyi**, ..., M M Chakravarty et al. *Genes Correlated With Increases In Neuroanatomical Variability Through Evolution Are Implicated In Neuropsychiatric Disorders: A Comparative Chimpanzee-Human Neuroimaging And Transcriptomic Study*. Society for Neuroscience 2021. Online, 2021-11.
- O. Parent, ..., **G. A. Devenyi**, M. M. Chakravarty et al. *Comparing Age Trajectories Of MRI Cortical Markers And Myelin: An Exploratory Study*. Society For Neuroscience. Online, 2021-11.
- V. Valiquette, ..., **G. A. Devenyi**, M. Chakravarty et al. *Examining Litter Specific Variability In Mice And Its Impact On Neurodevelopmental Studies*. Society for Neuroscience 2021. Online, 2021-11.
- R. A. I. Bethlehem et al. “Brain charts for the human lifespan”. en. 2021-10.
- M. Costantino, ..., **G. A. Devenyi**, ..., M. Mallar Chakravarty et al. “Sex Differences in Cortical Morphometry during Ageing: Examining the Interplay between Lifestyle and Reproductive Factors”. en. 2021-10.
- M. Courson, ..., **G. Devenyi**, ..., S. M. Brambati et al. *Secondary Damage Of The Thalamus In Post-Stroke Aphasia: A New Player In Language Recovery Outcome*. Society For The Neurobiology Of Language. Online, 2021-10.
- E. Guma, ..., **G. A. Devenyi**, ..., M. Mallar Chakravarty et al. “Differential effects of early or late exposure to prenatal maternal immune activation on mouse embryonic neurodevelopment”. en. 2021-07.
- N. Blostein, **G. A. Devenyi**, ..., M. M. C. Armin Raznahan et al. *Subcortical Structure Areal Expansion In The Human Compared To The Chimpanzee And Heritability*. Organization For Human Brain Mapping. Online, 2021-06.
- M. Costantino, ..., **G. Devenyi**, ..., M. M. C. Nicole Gervais et al. *Effects Of Pregnancy: Menopause And Lifestyle Risk Factors On Cortical Thickness In Healthy Ageing*. Organization For Human Brain Mapping. Online, 2021-06.
- L. Cupo, ..., M. M. C. Gabriel Devenyi et al. *Characterization Of Early Maternal Immune Activation On Brain And Behavior During Adolescence And Early Adulthood In Mice*. Organization For Human Brain Mapping. Online, 2021-06.
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- R. Patel, ..., **G. A. Devenyi**, M. M. Chakravarty et al. *Individual Variability Of Microstructural-Functional Coupling In The Human Cortex*. Organization For Human Brain Mapping. Online, 2021-06.
- S. D. Premasiri, ..., **G. A. Devenyi**, M. M. Chakravarty et al. *A Cascaded 3D U-Net Model For Fast Automatic Segmentation Of The Hippocampus*. Organization For Human Brain Mapping. Online, 2021-06.
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- R. Patel, ..., **G. A. Devenyi**, ..., S. Suri et al. “Individual variation in brain microstructural-cognition relationships in aging”. en. 2021-02.
- N. Bhagwat, ..., **G. A. Devenyi**, ..., J.-B. Poline et al. “Understanding the impact of preprocessing pipelines on neuroimaging cortical surface analyses”. en. In: *GigaScience* 10.1 (2021-01). DOI: [10.1093/gigascience/giaa155](https://doi.org/10.1093/gigascience/giaa155).
- A. Bussy, ..., **G. A. Devenyi**, M. Chakravarty et al. “Volumetric, shape and microstructural alterations of the hippocampal subfields in healthy aging”. en. In: *Alzheimer’s & dementia: the journal of the Alzheimer’s Association* 16.S4 (2020-12). DOI: [10.1002/alz.039589](https://doi.org/10.1002/alz.039589).

- M. Kirschner, ..., **G. A. Devenyi**, ..., B. Mišić et al. “Latent Clinical-Anatomical Dimensions of Schizophrenia”. en. In: *Schizophrenia bulletin* 46.6 (2020-12), pp. 1426–1438. DOI: [10.1093/schbul/sbaa097](https://doi.org/10.1093/schbul/sbaa097).
- E. Olafson, ..., **G. A. Devenyi**, ..., M. Mallar Chakravarty et al. “Examining the boundary sharpness coefficient as an index of cortical microstructure and its relationship to age and sex in autism spectrum disorder”. en. 2020-12.
- Skorska, ..., bibinitperiod Vanderlaan et al. *Brain Cortical Thickness And Surface Area In Adolescents Who Experience Gender Dysphoria: A Preliminary Analysis*. The 47th Canadian Sex Research Forum Annual Conference. Online, 2020-10.
- M. Blüma, ..., **G. A. Devenyi**, ..., C. Babiloni et al. “Lifetime brain structural trajectories in TAUPS2APP mouse model of Alzheimer’s disease”. In: 2020-07. URL: <https://alz.confex.com/alz/20amsterdam/meetingapp.cgi/Paper/45523>.
- N. Blostein, ..., **G. A. Devenyi**, M. M. C. Raihaan Patel et al. *The Modular Organization Of Heritability Across The Cortex*. Organization For Human Brain Mapping. Online, 2020-06.
- N. Blostein, ..., **G. A. Devenyi**, M. M. Chakravarty et al. *Heritability Of Subcortical Structures Using A Twin And Non-Twin Sibling Design*. Organization For Human Brain Mapping. Online, 2020-06.
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- D. R. Gallino, **G. A. Devenyi**, and M. M. Chakravarty. *Acute Fornix Deep Brain Stimulation Remodels Brain And Improves Memory In Alzheimer’S Mouse Model*. Organization For Human Brain Mapping. Online, 2020-06.
- S. L. Jones, ..., **G. A. Devenyi**, ..., S. King et al. *Prenatal Stress Alters Hypothalamic-Pituitary-Gonadal Axis Structures In Adults: Project Ice Storm*. Organization for Human Brain Mapping 2020. Online, 2020-06.
- S. Mcgillivray, ..., **G. A. Devenyi**, ..., C. Tardif et al. *Quantitative MRI of Social Isolation In Male And Female Mice*. Organization For Human Brain Mapping. Online, 2020-06.
- E. Plitman, ..., **G. A. Devenyi**, M. M. Chakravarty et al. *Test-Retest Reliability Of Cortical Thickness And Structure Volume In Volumetric Navigator Sequences*. Organization For Human Brain Mapping. Online, 2020-06.
- E. Guma, ..., **G. A. Devenyi**, ..., M. Chakravarty et al. “Altered Neurodevelopmental Trajectories in Mice Following First and Second Trimester Maternal Immune Activation”. In: vol. 87. Elsevier, 2020-05, S141. DOI: [10.1016/j.biopsych.2020.02.375](https://doi.org/10.1016/j.biopsych.2020.02.375).
- S. L. Jones, ..., **G. A. Devenyi**, ..., S. King et al. “Prenatal Maternal Stress Alters the Structural Integrity of the Hypothalamic-Pituitary-Gonadal Axis 20 Years After Exposure: Project ICE Storm”. In: *Biological psychiatry* 87.9 (2020-05), S324. DOI: [10.1016/j.biopsych.2020.02.833](https://doi.org/10.1016/j.biopsych.2020.02.833).
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- C. Anastassiadis, ..., **G. A. Devenyi**, ..., M. Mallar Chakravarty et al. *The effect of high-fat diet and exercise on neuroanatomy in a mouse model of Alzheimer’s disease*. Canadian College of Neuropsychopharmacology 2019 Conference. Montreal, Quebec, Canada, 2019-06. URL: <https://ccnp.ca/Meeting/Program>.
- A. Buckthought, **G. Devenyi**, ..., M. Brossard-Racine et al. *Cerebellar anatomical alterations in youth with complex congenital heart disorder*. International Society for Magnetic Resonance in Medicine 2019 Conference. Montreal, Quebec, Canada, 2019-05. URL: https://www.ismrm.org/19/program_files/DP12.htm.
- G. Desrosiers-Grégoire, ..., **G. A. Devenyi**, M. Mallar Chakravarty et al. *Comparison of the BOLD-evoked response to hypercapnic challenge in mice anesthetized under isoflurane and dexmedetomidine*. International Society for Magnetic Resonance in Medicine 2019 Conference. Montreal, Quebec, Canada, 2019-05. URL: https://www.ismrm.org/19/program_files/DP11.htm.
- D. Goerzen, ..., **G. Devenyi**, ..., J. Near et al. *An MRI-Derived Neuroanatomical Atlas of the Fischer 344 Rat Brain*. International Society for Magnetic Resonance in Medicine 2019 Conference. Montreal, Quebec, Canada, 2019-05. URL: https://www.ismrm.org/19/program_files/DP10.htm.
- M. N. Skorska, ..., **G. A. Devenyi**, ..., D. P. Vanderlaan et al. *Surface Area And Cortical Volume In Adolescents Who Experience Gender Dysphoria: A Preliminary Analysis Using MRI*. University Of Toronto Mississauga Graduate Research Colloquium. Mississauga, Ontario, Canada, 2019-04.

- C. Anastassiadis, . . . , **G. A. Devenyi**, . . . , M. Mallar Chakravarty et al. *Can exercise and diet rescue the effects of obesity on Alzheimer's disease-like pathology in a mouse model?* 2019 Rotman Research Institute Conference. Toronto, Ontario, Canada, 2019-03.
- N. Fotopoulos, **G. Devenyi**, . . . , R. Jooper et al. "SA3 - REDUCED CORTICAL THICKNESS IN CHILDREN WITH ADHD: ROLE OF NET16 AND MATERNAL SMOKING DURING PREGNANCY". In: *European neuropsychopharmacology: the journal of the European College of Neuropsychopharmacology* 29 (2019-01), S823–S824. DOI: [10.1016/j.euroneuro.2017.08.075](https://doi.org/10.1016/j.euroneuro.2017.08.075).
- S. L. Jones, . . . , **G. A. Devenyi**, . . . , S. King et al. *Prenatal maternal stress affects the structural integrity of the hypothalamic pituitary gonadal axis in males and females: Project Ice Storm*. en. Canadian National Perinatal Research Meeting. Mont-Tremblant, Quebec, 2019.
- C. Anastassiadis, . . . , **G. A. Devenyi**, . . . , M. M. Chakravarty et al. *Mitigating the effects of adult obesity with exercise and dietary treatment in a mouse model of Alzheimer's disease*. Society for Neuroscience. San Diego, CA, USA, 2018-11.
- E. Guma, . . . , **G. A. Devenyi**, M. M. Chakravarty et al. *Mapping of postnatal neurodevelopment in response to early and late prenatal maternal immune activation in mice*. Society for Neuroscience. San Diego, CA, USA, 2018-11.
- M. N. Skorska, . . . , **G. A. Devenyi**, . . . , D. P. Vanderlaan et al. *Surface Area And Cortical Volume In Adolescents Who Experience Gender Dysphoria: A Preliminary Analysis Using MRI*. Gender Development Research Conference. San Francisco, California, USA, 2018-10.
- M. N. Skorska, . . . , **G. A. Devenyi**, . . . , D. P. VanderLaan et al. *Surface area and cortical volume in adolescents who experience gender dysphoria: A preliminary analysis of the relation to sexual orientation*. Canadian Sex Research Forum. Toronto, ON, Canada, 2018-10.
- G. Desrosiers-Gregoire, . . . , **G. A. Devenyi**, M. M. Chakravarty et al. *Investigating brain functional connectivity in mouse models of neuropsychiatric disorders using fMRI*. McGill Integrated Program in Neuroscience Retreat. Montreal, QC, Canada, 2018-09.
- M. N. Skorska, . . . , **G. A. Devenyi**, . . . , D. P. VanderLaan et al. *Surface area and cortical volume in adolescents who experience gender dysphoria: A preliminary analysis of the relation to sexual orientation*. International Academy of Sex Research Meeting. Madrid, Spain, 2018-07.
- J.-A. Bertrand, **G. A. Devenyi**, . . . , S. Richard-Devantoy et al. *Thalamic surface alteration in elderly depressed patients at-risk for suicide*. Society for Biological Psychiatry. New York, NY, USA, 2018-05.
- J.-A. Bertrand, **G. A. Devenyi**, . . . , S. Richard-Devantoy et al. "T125. Thalamic Shape Differences in Elderly Depressed Patients At-Risk for Suicide". In: *Biological psychiatry* 83.9, Supplement (2018-05), S176–S177. DOI: [10.1016/j.biopsych.2018.02.461](https://doi.org/10.1016/j.biopsych.2018.02.461).
- C. J. Steele, . . . , **G. A. Devenyi**, M. M. Chakravarty et al. *Quantifying cortico-cerebellar structural covariance*. International Society for Magnetic Resonance in Medicine. Paris, France, 2018-05.
- S. Tullo, **G. A. Devenyi**, . . . , M. M. Chakravarty et al. *MR-based age- and sex-related effects on the striatum, globus pallidus and thalamus in healthy individuals across the adult lifespan*. Canadian Neuroscience Conference. Montreal, QC, Canada, 2018-05.
- S. Guimond, . . . , **G. A. Devenyi**, . . . , M. Keshavan et al. *Pituitary gland volume differences in individuals with psychosis: Results from the bipolar-schizophrenia network on intermediate phenotypes (B-SNIP) study*. Schizophrenia International Research Society Conference. Florence, Italy, 2018-04.
- S. Guimond, . . . , **G. A. Devenyi**, . . . , M. S. Keshavan et al. "T22. PITUITARY GLAND VOLUME DIFFERENCES IN INDIVIDUALS WITH PSYCHOSIS: RESULTS FROM THE BIPOLAR-SCHIZOPHRENIA NETWORK ON INTERMEDIATE PHENOTYPES (B-SNIP) STUDY". en. In: *Schizophrenia bulletin* 44.suppl_1 (2018-04), S121–S121. DOI: [10.1093/schbul/sby016.298](https://doi.org/10.1093/schbul/sby016.298).
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- S. Bedford, ..., **G. A. Devenyi**, ..., M. M. Chakravarty et al. *A cross-sectional neuroimaging prospective mega-analysis identifying sex-dependent atypical cortical thickness in autism spectrum disorders*. Canadian College of Neuropsychopharmacology Conference. Kingston, ON, Canada, 2017-07.
- C. L. Tardif, ..., **G. A. Devenyi**, ..., PREVENT-AD Research Group et al. *Hippocampal T1-weighted and FLAIR contrast is associated with CSF biomarkers in asymptomatic individuals with parental history of Alzheimer's disease*. International Society of Magnetic Resonance in Medicine Conference. Honolulu, Hawaii, USA, 2017-07.
- N. Fotopoulos, **G. A. Devenyi**, ..., R. Joober et al. *Investigating the effects of maternal smoking during pregnancy on brain structure in children with Attention deficit-hyperactivity disorder (ADHD)*. Canadian College of Neuropsychopharmacology Conference. Kingston, ON, Canada, 2017-06.
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- D. Gallino, **G. A. Devenyi**, ..., M. M. Chakravarty et al. *High-frequency deep brain stimulation of the fornix improves memory consolidation and causes network-level neuroanatomical remodeling in an Alzheimer's mouse model*. Canadian Association for Neuroscience Conference. Montreal, QC, Canada, 2017-05.
- M. S. Kang, ..., **G. A. Devenyi**, ..., P. Rosa-Neto et al. *Increased level of CSF neurofilament light chain is associated with structural changes in transgenic rat model of Alzheimer's disease*. Brain PET Conference. Berlin, Germany, 2017-04.
- P. F. Hill, ..., **G. A. Devenyi**, ..., R. A. Diana et al. *Functional dissociation and specialization of dentate gyrus and CA3 hippocampal subfields during episodic future thinking*. Cognitive Neuroscience Society Conference. San Francisco, CA, USA, 2017-03.
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