

Gabriel A. Devenyi



PROFESSIONAL CONTACT Research Computing Associate
Computational Brain Anatomy (CoBrA) Laboratory &
Cerebral Imaging Center
Douglas Mental Health University Institute

Affiliate Member, Department of Psychiatry
McGill University
6875 LaSalle Boulevard
CIC Pavillion, GH-2111
Montréal, Québec
H4H 1R3, Canada

☎ 514.761.6131×4781
✉ gabriel.devenyi@mcgill.ca
🐙 [gdevenyi](https://github.com/gdevenyi)
🐦 [gadevenyi](https://twitter.com/gadevenyi)

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 **2009-05 – 2013-12**

- Defended : 2013-12-09
- Conferred : 2014-06-11
- Thesis : An Investigation into the Role of Energy and Symmetry at Epitaxial Interfaces
- Adviser : Dr. John S. Preston

Masters of Applied Science — Engineering Physics **2007-05 – 2009-05**

- Transferred to Doctor of Philosophy Program
- Adviser : Dr. John S. Preston

Bachelor of Engineering — Engineering Physics **2002-09 – 2007-05**

- Awarded with Distinction

HONOURS AND AWARDS

Canadian Open Neuroscience Platform Research Scholar — \$50,000 **2019**

Nano Ontario 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**

ELCAN Optical Technologies Student Scholarship — \$1500 **2002,2003,2004**

McMaster University Entrance Scholarship — \$1000 **2002**

TEACHING EXPERIENCE **Douglas University Mental Health Institute, CIC**, Montreal, QC, Canada

Research Computing Associate – CIC Software Seminar Series **2014-08 – Present**

Presentation of practical hands-on courses in reproducible computing, cluster based computing, MR image processing for human and animal subjects, and statistical analysis of MR images.

Software Carpentry, Online

Volunteer Instructor **2012-11 – Present**

Preparation and presentation of introductory computer science and engineering concepts to researchers in the sciences through multi-day workshops. Software Carpentry's aim is to teach researchers (usually graduate students) basic computing concepts and skills so that they can get more done in less time, and with less effort.

McMaster University, Hamilton, ON, Canada

Sessional Lecturer — MATLS 1M03, Introduction to Materials Science **2014-06 – 2014-08**

Presentation of lecture material, preparation of assignments, quizzes and midterms. Marking and evaluation of student's work. Supervision and assignment of work to teaching assistants. Discussion of the role of the

fundamental physics which determine the properties of materials, the varied properties of materials, and how those properties factor into the engineering design process.

Co-Instructor — ENG PHYS 2CE4, Computational Methods for Engineering Physics **2014-01 – 2014-04**
Preparation of assignments, quizzes and occasional lecture material for newly developing course on numerical methods, with an eye towards practical problems encountered by Engineering Physics graduates in research and industry. Refinement of core curriculum based on feedback for future course incarnations.

Teaching Assistant — ENG PHYS 3F04 Introduction to Solid State **2012-09 – 2012-12**
Preparation of tests and assignments for students. Evaluation and marking of student tests and assignments. Management of class marks.

Teaching Assistant — ENG PHYS 4A06 Senior Undergraduate Thesis Project **2008-09 – 2012-05**
Management and supervision of senior undergraduate thesis laboratory used for competitive robotics project. Maintenance and teaching of electronics testing equipment, troubleshooting of electronics design including amplifiers, motor control, sensors and PCB design. Teaching and troubleshooting of embedded systems programming.

Teaching Assistant — ENG PHYS 4U04 Advanced Computer Laboratories **2008-09 – 2009-05**
Management of hardware and software for advanced computer/hardware interaction laboratories. Instruction and troubleshooting of digital signal processing.

RESEARCH
EXPERIENCE

McMaster University, Hamilton, ON, Canada

Laboratory Manager **2009-05 – 2014-05**

Design, construction and maintenance of laboratory equipment including computers, lasers, optical components, vacuum and gas systems, growth chambers and heaters. Instruction of new students on safety and operation of laboratory equipment.

Summer and Co-op Student Supervisor **2009-09 – 2014-05**
Instruction, guidance and supervision of junior researchers on summer research positions. Training on laboratory safety and specific laboratory hazards.

Undergraduate Research Opportunities Summer Student **2003-05 – 2003-08**
Repaired and upgraded undergraduate optical laboratory equipment. Re-implemented resistivity/hall effect characterization system from BASIC to LabVIEW.

PROFESSIONAL
EXPERIENCE

McMaster University — Electrical and Computer Engineering, Hamilton, ON, Canada

Programmer/Analyst **2014-02 – 2014-08**

Technical support of computer, laboratory equipment and software for research. Design, setup and testing of software deployment on heterogeneous Linux-based supercomputing cluster for faculty and graduate student research using commercial optimization software and MATLAB. Instruction of graduate students on best practices in scientific computing. Provision and deployment of workstations for scientific computing.

Raytheon ELCAN Optical Technologies, Midland, ON, Canada

Optical Design Intern **2005-05 – 2006-08**

Designed, specified tolerances and oversaw production of multi-element infrared and visible lens systems in ZEMAX and CodeV. Designed and oversaw production of opto-mechanical assembly of infrared imaging system for R&D evaluation of novel computationally assisted imaging technique for increased depth-of-field. Provided technical support for bid proposals and request for quote to sales and marketing.

Project Management Intern **2002-05 – 2002-08**

Data mining of process flow bottlenecks of warranty and non-warranty products for repair. Automation of internal reporting systems using Microsoft Excel Visual Basic for Applications.

JOURNAL
REVIEWS

Nature Scientific Data **2018**

Elsevier Applied Surface Science **2015**

SERVICE

Software Carpentry, Online

Maintainer and Developer **2012-11 – Present**

Preparation and presentation of introductory computer science and engineering concepts to researchers in the sciences through multi-day workshops. Software Carpentry's aim is to teach researchers (usually graduate students) basic computing concepts and skills so that they can get more done in less time, and with less effort.

McMaster University, ON, Canada

Ex-Officio Member - Engineering Physics Graduate Advisory Committee **2013-12 – 2014-08**

Bootstrapping of body intended to provide feedback and consultation between the Department of Engineering Physics regarding concerns and problems, and organization of graduate student events. Initial scheduling, draft of committee's mission statement and recruitment of current students to organize and participate in committee.

Nano Ontario, ON, Canada

Board Member At-Large - Chair, Communications Committee **2013-03 – 2015-01**

Responsible for the crafting of communications strategies, through website, social media email and traditional media and the development and implementation of membership control and new members drive. Nano Ontario is a not-for-profit membership organization that represents the interests of academic, government, industrial, and finance community members in the development of nanotechnologies in Ontario.

McMaster University, Hamilton, ON, Canada

Engineering Physics Professorial Search Committee **2010-11 – 2011-01**

Organized and operated graduate round table to interview candidates and provided feedback to departmental chair.

Center for Inquiry, Toronto, ON, Canada

Committee for the Advancement of Scientific Skepticism **2010-10 – 2012-08**

Research, writing and organizing of media releases, websites, and rallies with the purpose of informing the public and media regarding science and skepticism.

McMaster University, Hamilton, ON, Canada

NanoGiga 2009, 14th Canadian Semiconductor Technology Conference **2009-08**

Evaluation of abstracts, production of conference materials, scheduling of sessions and technical logistics of sessions.

McMaster University, Hamilton, ON, Canada

Graduate Student Association – Phoenix Executive Committee **2009-09 – 2013-12**

Oversight of finance, policies and procedures of GSA owned bar *The Phoenix*. Technical analysis and recommendation of point-of-sale system.

BIBLIOMETRICS Published Peer-Reviewed Articles : 39 (4 first author)

Abstracts in Conference Proceedings : 40

Invited Presentations : 12

h-index : 10

i10-index : 10

PATENTS

Jovanovic, S. M., **Devenyi, G. A.**, Preston, J. S., "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/WO2014026292A1.pdf>.

INVITED PRESENTATIONS

Near, J., **Devenyi, G. A.**, *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/>.

Devenyi, G. A., Schwartz, R., *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/>.

Devenyi, G. A., Haine, D., Corvellec, M., Santos, J. F., Kozlov, I., *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/>.

- Blischak, J. D., Haine, D., Corvellec, M., **Devenyi, G. A.**, *Skills for Scientific Computing*. Software Carpentry Workshop, Faculty of Medicine, University of Montreal. Saint-Hyacinthe, QC, Canada, 2014-11. URL: <https://dhaine.github.io/2014-11-06-fmv/>.
- Devenyi, G. A.** *L^AT_EX for Preparation of Scientific Documents and Theses*. Department of Electrical and Computer Engineering, McMaster University. Hamilton, ON, Canada, 2014-06.
- Devenyi, G. A.**, Ory, J., *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/>.
- Devenyi, G. A.** *L^AT_EX for Preparation of Scientific Documents and Theses*. Department of Medical Physics, McMaster University. Hamilton, ON, Canada, 2014-05.
- Wilson, G. W., **Devenyi, G. A.**, *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-mcmaster/>.
- Devenyi, G. A.** *L^AT_EX for Preparation of Scientific Documents and Theses*. School of Graduate Studies, McMaster University. Hamilton, ON, Canada, 2013-05.
- Devenyi, G. A.** *L^AT_EX for Preparation of Scientific Documents and Theses*. School of Graduate Studies, McMaster University. Hamilton, ON, Canada, 2012-11.
- Devenyi, G. A.** *The Future of Photovoltaics: Next Generation Materials and Devices at McMaster University Engineering Physics*. IEEE Hamilton Chapter Monthly Meeting. Hamilton, ON, Canada, 2012-05.
- Devenyi, G. A.** *Optical Design and Engineering – Work Experience at ELCAN Optical Technologies*. Engineering Physics 3G03 Class Lecture, McMaster University. Hamilton, ON, Canada, 2008-10.
- CONTRIBUTED PUBLICATIONS
- Jones, S. L., Anastassiadis, C., Dupuis, M., Elgbeili, G., Marcoux, F. P., Gazetas, J., **Devenyi, G. A.**, Near, J., Laplante, D. P., Pruessner, J., King, S., *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.
- Anastassiadis, C., Rollins, C., Gallino, D., Kong, V., Ayranci, G., **Devenyi, G. A.**, Germann, J., Chakravarty, M. M., *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.
- Guma, E., Anastassiadis, C., Germann, J., Gallino, D., Ayranci, G., **Devenyi, G. A.**, Chakravarty, M. M., *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.
- Skorska, M. N., Bruggen, N., Lobaugh, N. J., Patel, R., Bedford, S., **Devenyi, G. A.**, Keerthi, P., Chavez, S., Zucker, K. J., Lai, M.-C., Chakravarty, M. M., VanderLaan, D. P., *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.
- Desrosiers-Gregoire, G., Gallino, D., **Devenyi, G. A.**, Chakravarty, M. M., *Investigating brain functional connectivity in mouse models of neuropsychiatric disorders using fMRI*. McGill Integrated Program in Neuroscience Retreat. Montreal, QC, Canada, 2018-09.
- Skorska, M. N., Bruggen, N., Lobaugh, N. J., Patel, R., Bedford, S., **Devenyi, G. A.**, Keerthi, P., Chavez, S., Zucker, K. J., Lai, M.-C., Chakravarty, M. M., VanderLaan, D. P., *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.
- Bertrand, J.-A., **Devenyi, G. A.**, Turecki, G., Chakravarty, M. M., Richard-Devantoy, S., *Thalamic surface alteration in elderly depressed patients at-risk for suicide*. Society for Biological Psychiatry. New York, NY, USA, 2018-05.
- Bertrand, J.-A., **Devenyi, G. A.**, Turecki, G., Chakravarty, M., Richard-Devantoy, S., “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).
- Steele, C. J., Patel, S., Germann, J., **Devenyi, G. A.**, Chakravarty, M. M., *Quantifying cortico-cerebellar structural covariance*. International Society for Magnetic Resonance in Medicine. Paris, France, 2018-05.
- Tullo, S., **Devenyi, G. A.**, Patel, R., Salaciak, A., Bedford, S., Chakravarty, M. M., *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.
- Guimond, S., Tingue, S., **Devenyi, G. A.**, Tang, Y., Mike, L., Chakravarty, M. M., Sweeney, J., Perlsn, G., Clementz, B., Tamminga, C., Keshavan, M., *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.

- Makowski, C., Tardif, C. L., **Devenyi, G. A.**, Amaral, R. S. C., Buck, G., Joobar, R., Malla, A., Shah, J., Chakravarty, M. M., Lepage, M., *Multimodal Quantification of Memory Circuit Microstructure in First Episode Psychosis*. Schizophrenia International Research Society Conference. Florence, Italy, 2018-04.
- Makowski, C., Tardif, C., **Devenyi, G.**, Amaral, R., Buck, G., Joobar, R., Malla, A., Shah, J., Chakravarty, M., Lepage, M., “T172. MULTIMODAL QUANTIFICATION OF MEMORY CIRCUIT MICROSTRUCTURE IN FIRST EPISODE PSYCHOSIS”. In: *Schizophrenia bulletin* 44.suppl_1 (2018-04), S182–S182. DOI: [10.1093/schbul/sby016.448](https://doi.org/10.1093/schbul/sby016.448).
- Guimond, S., Tingue, S., **Devenyi, G. A.**, Tang, Y.-X., Mike, L., Mallar Chakravarty, M., Sweeney, J. A., Pearlson, G. D., Clementz, B. A., Tamminga, C. A., “T22. Pituitary Gland Volume Differences In Individuals With Psychosis: Results From The Bipolar-schizophrenia Network On Intermediate Phenotypes (b-snip) Study”. In: *Schizophrenia bulletin* 44.suppl_1 (2018), S121–S121. URL: https://academic.oup.com/schizophreniabulletin/article-abstract/44/suppl_1/S121/4957362.
- Guadagno, Angela, Kan, Mathieu, A. P., Guma, E., **Devenyi, G. A.**, Rosa-Neto, P., Chakravarty, M. M., Walker, C.-D., *Resting-state functional connectivity of the basolateral amygdala is altered in preweaning rats subjected to chronic early life stress*. Society for Neuroscience Conference. Washington, DC, USA, 2017-11.
- Tullo, S., **Devenyi, G. A.**, Patel, R., Salaciak, A., Bedford, S., Chakravarty, M. M., *MR-based age-and sex-related effects on the striatum, globus pallidus and thalamus in healthy individuals across the adult lifespan*. Society for Neuroscience. Washington, DC, USA, 2017-11.
- Bedford, S., Park, M. T. M., **Devenyi, G. A.**, Tullo, S., Anagnostou, E., Baron-Cohen, S., Craig, M. C., Ecker, C., Lenroot, R., Lerch, J. P., Lombardo, M. V., Murphy, D. G. M., Raznahan, A., Ruigrok, A. N. V., Smith, E., Swedo, S., Taylor, M. J., Thurm, A., MRC Aims Consortium, Lai, M.-C., Chakravarty, M. M., *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.
- Tardif, C. L., Amaral, R. S. C., **Devenyi, G. A.**, Rosa-Neto, P., Poirier, J., Breitner, J., Chakravarty, M. M., PREVENT-AD Research Group, *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.
- Fotopoulos, N., **Devenyi, G. A.**, Chakravarty, M. M., Karama, S., Grizenko, N., Joobar, R., *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.
- Bedford, S., Park, M. T. M., **Devenyi, G. A.**, Tullo, S., Anagnostou, E., Baron-Cohen, S., Craig, M. C., Ecker, C., Lenroot, R., Lerch, J. P., Lombardo, M. V., Murphy, D. G. M., Raznahan, A., Ruigrok, A. N. V., Smith, E., Swedo, S., Taylor, M. J., Thurm, A., MRC Aims Consortium, Lai, M.-C., Chakravarty, M. M., *Large-scale (N=1830) analysis of sex-dependent atypical cortical thickness in autism spectrum disorder*. Society for Biological Psychiatry Conference. San Diego, CA, USA, 2017-05.
- Gallino, D., **Devenyi, G. A.**, Germann, J., Frey, S., Chakravarty, M. M., *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.
- Kang, M. S., Zimme, E. R., Shin, M., Mothataarachchi, S., Pascoal, T., Ng, K. P., **Devenyi, G. A.**, Chakravarty, M. M., Blennow, K., Zetterberg, H., Soucy, J.-P., Poirier, J., Gauthier, S., Cuello, A. C., Rosa-Neto, P., *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.
- Hill, P. F., Sweeney, T., **Devenyi, G. A.**, Chakravarty, M. M., Diana, R. A., *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.
- McKee, K., Navarri, X., Elgbelli, G., Laplante, D. P., Jones, S. L., **Devenyi, G. A.**, Chakravarty, M. M., King, S., *Cerebellar volume mediates the association between prenatal maternal stress and motor performance in adolescent boys: Project Ice Storm*. Canadian National Perinatal Research Meeting. Montebello, QC, Canada, 2017-02.
- Ayranci, G., Patel, R., **Devenyi, G. A.**, Kong, V., Chakravarty, M. M., *Influence of amyloid burden on subcortical volume and morphometry*. Society for Neuroscience Conference. San Diego, CA, USA, 2016-11.
- Gallino, D., **Devenyi, G. A.**, Germann, J., Chakravarty, M. M., *High-frequency deep brain stimulation of the fornix improves memory formation and causes network-level neuroanatomical remodeling in an Alzheimer’s mouse model*. Society for Neuroscience Conference. San Diego, CA, USA, 2016-11.

- Guma, E., **Devenyi, G. A.**, Germann, J., Chakravarty, M. M., *Sex differences in a population with familial high-risk for psychosis: analysis of neuroanatomical and symptom sexual dimorphism*. Society for Neuroscience Conference. San Diego, CA, USA, 2016-11.
- Steele, C. J., Patel, S., **Devenyi, G. A.**, Knight, J., Chakravarty, M. M., *A quantification of normative grey-matter structural variability, covariance, and heritability in the human cerebellum*. Society for Neuroscience Conference. San Diego, CA, USA, 2016-11.
- Tardif, C. L., **Devenyi, G. A.**, Rosa-Neto, P., Poirier, J., Breitner, J., Chakravarty, M. M., PREVENT-AD Research Group, *Hippocampus and subfield volumes are associated with β -amyloid and phospho-tau in asymptomatic individuals with familial history for Alzheimer's disease*. Society for Neuroscience Conference. San Diego, CA, USA, 2016-11.
- Vatcher, D., Sahakian, S., Chakravarty, M., **Devenyi, G. A.**, Saint-Martin, C., Rohlicek, C., Abda, A., Leone, O., Brossard-Racine, M., *Subcortical Volumes and Psychosocial Outcomes in Young Adults with Congenital Heart Disease*. McGill Medicine Student Research Day. Montreal, QC, CA, 2016-11.
- Patel, S., Park, M. T. M., **Devenyi, G. A.**, Patel, R., Chakravarty, M. M., Knight, J., *Heritability of hippocampal subfield volumes using a twin and non-twin sibling design*. Organization for Human Brain Mapping Meeting. Geneva, Switzerland, 2016-06.
- Steele, C. J., Patel, S., **Devenyi, G. A.**, Knight, J., Chakravarty, M. M., *Variability and heritability of cerebellar lobules*. Organization for Human Brain Mapping Meeting. Geneva, Switzerland, 2016-06.
- Fotopoulos, N., **Devenyi, G. A.**, Chakravarty, M. M., Karama, S., Segunpta, S. M., Grizenko, N., Joobar, R., "Structural Brain Imaging (MRI) Case-Control Study of Cortical Thickness and Surface area in Children Affected with Attention Deficit Hyperactivity Disorder (ADHD)". In: *GENETIC EPIDEMIOLOGY*. Vol. 40. 2016, pp. 636–636.
- Bedford, A., Park, M. T. M., **Devenyi, G. A.**, Patel, R., Chakravarty, M. M., *Left lateralized sexual dimorphism in cortical thickness in autism*. Society for Neuroscience Conference. Chicago, IL, USA, 2015-10.
- Devenyi, G. A.**, R. P., Germann, J., Chakravarty, M. M., *Structural trajectories of healthy aging in cortical thickness and subcortical morphometry*. Society for Neuroscience 2015. Chicago, IL, USA, 2015-10.
- Gallino, D., Kong, V., **Devenyi, G. A.**, Mathieu, A., Chakravarty, M. M., *Deep brain stimulation in mice using magnetic resonance imaging-compatible carbon electrodes*. Society for Neuroscience 2015. Chicago, IL, USA, 2015-10.
- Guma, E., Rocchetti, J., **Devenyi, G. A.**, Lerch, J. P., Dal Bo, G., Courcot, B., Chakravarty, M. M., Giros, B., *Brain volume changes following chronic antipsychotic treatment in animal models: MRI and histological study*. Society for Neuroscience Conference. Chicago, IL, USA, 2015-10.
- Kong, V., Patel, R., **Devenyi, G. A.**, Chakravarty, M. M., *Heterogeneity in neuroanatomical differences in relation to amyloid burden in mild cognitive impairment*. Society for Neuroscience Conference. Chicago, IL, USA, 2015-10.
- Patel, Raihaan, Devenyi, Gabriel, Kong, V., Chakravarty, M. M., *Subcortical volume and morphology in Alzheimer's disease and mild cognitive impairment*. Society for Neuroscience Conference. Chicago, IL, USA, 2015-10.
- Miki, C., **Devenyi, G. A.**, Jovanovic, S., Meinander, K., Carvalho, J., Zhu, G., Preston, J. S., "Transfer of Epitaxial Thin Films to Carrier Substrates". In: *APS Meeting Abstracts*. Vol. 2014. 2014-03. URL: <http://adsabs.harvard.edu/abs/2014APS..MARD53010M>.
- Boutet, A., Ranjan, M., Zhong, J., Germann, J., Xu, D., Schwartz, M. L., Lipsman, N., Hynynen, K., **Devenyi, G. A.**, Chakravarty, M., Hlasny, E., Llinas, M., Lozano, C. S., Elias, G. J. B., Chan, J., Coblentz, A., Fasano, A., Kucharczyk, W., Hodaie, M., Lozano, A. M., "Focused ultrasound thalamotomy location determines clinical benefits in patients with essential tremor". en. In: *Brain: a journal of neurology* 141.12 (2018-12), pp. 3405–3414. DOI: [10.1093/brain/awy278](https://doi.org/10.1093/brain/awy278).
- Guadagno, A., Kang, M. S., **Devenyi, G. A.**, Mathieu, A. P., Rosa-Neto, P., Chakravarty, M., Walker, C.-D., "Reduced resting-state functional connectivity of the basolateral amygdala to the medial prefrontal cortex in preweaning rats exposed to chronic early-life stress". en. In: *Brain structure & function* 223.8 (2018-11), pp. 3711–3729. DOI: [10.1007/s00429-018-1720-3](https://doi.org/10.1007/s00429-018-1720-3).
- Hoops, D., Desfilis, E., Ullmann, J. F. P., Janke, A. L., Stait-Gardner, T., **Devenyi, G. A.**, Price, W. S., Medina, L., Whiting, M. J., Keogh, J. S., "A 3D MRI-based atlas of a lizard brain". en. In: *The Journal of comparative neurology* 526.16 (2018-11), pp. 2511–2547. DOI: [10.1002/cne.24480](https://doi.org/10.1002/cne.24480).
- Jovanovic, S. M., **Devenyi, G. A.**, Kuyanov, P., Carvalho, J. L., Meinander, K., LaPierre, R. R., Preston, J. S., "Epitaxial thin film transfer for flexible devices from reusable substrates". en. In: *Materials Research Express* 6.2 (2018-11), p. 025913. DOI: [10.1088/2053-1591/aaf264](https://doi.org/10.1088/2053-1591/aaf264).
- Rollins, C. P. E., Gallino, D., Kong, V., Ayranci, G., **Devenyi, G. A.**, Germann, J., Chakravarty, M. M., "Contributions of a high-fat diet to Alzheimer's disease-related decline: A longitudinal behavioural and

- structural neuroimaging study in mouse models”. en. In: *NeuroImage. Clinical* (2018-11). DOI: [10.1016/j.nicl.2018.11.016](https://doi.org/10.1016/j.nicl.2018.11.016).
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