

Maksim Parfyonov

Epilepsy Fellow, Cleveland Clinic
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EDUCATION

POST-GRADUATE TRAINING

<i>Cleveland Clinic</i> Clinical Neurophysiology Fellowship	2023-present
<i>Cleveland Clinic</i> Epilepsy Fellowship	2022-2023
<i>University of British Columbia</i> Pediatric Neurology Residency	2017-2022

DEGREES

<i>Case Western Reserve University</i> M.Sc. Biomedical & Health Informatics (in progress)	2023-present
<i>University of British Columbia</i> M.D.	2013-2017
<i>Simon Fraser University</i> B.Sc. with Distinction in Molecular Biology & Neuroscience (Double Major)	2006-2013

PROFESSIONAL QUALIFICATIONS & CREDENTIALS

Canadian Society for Clinical Neurophysiology Diplomate (EEG)	2023
Fellow of the Royal College of Physicians of Canada (FRCPC): Neurology	2022-present
Licentiate of the Medical Council of Canada	2017

PUBLICATIONS

JOURNAL ARTICLES

1. Vaughan T, Hammoud MS, Pande A, Chu L, Cummins K, McCloskey O, **Parfyonov M**, Doh CY, Edwards A, Sharew B, Greason C, Abushanab E, Gupta A, Marino B, Najm HK, Karamlou T. (Accepted) "Can Perioperative Electroencephalogram Tracings Predict Neurodevelopmental Outcomes in Neonates with Congenital Heart Disease?" *The Journal of Thoracic and Cardiovascular Surgery*
2. Sharma A, **Parfyonov M**, Tiefenbach J, Hogue O, Nero N, Jehi L, Serletis D, Bingaman W, Gupta A, Rammo R. (Accepted.) Predictors of Therapeutic Response Following Thalamic Neuromodulation for Drug-resistant Pediatric Epilepsy: A Systematic Review and Individual Patient Data Meta-analysis" *Epilepsia*
3. **Parfyonov M**, Ivaniuk A, Parikh S, Pestana-Knight E. 2023. "Epilepsy with eyelid myoclonia in the setting of de novo pathogenic variant in ATP1A3" *Epileptic Disorders*, 00: 1– 4. <https://doi.org/10.1002/epd2.20086>

4. Tester MA, **Parfyonov M**, Webb P, Datta A. 2022. "Reversible cerebral vasoconstriction syndrome following exchange transfusion and steroids in a child with sickle cell disease: a case report" *Journal of Pediatric Neurology and Neuroscience*, 6(1):222-226.
5. **Parfyonov M***, Alam A*, Huang CY, Gill I, Connolly MB, Iles J. 2022. "Targeted whole exome sequencing in children with early-onset epilepsy: Parent experiences" *Journal of Child Neurology* (*co-lead authors) 1-11
6. **Parfyonov M**, Friedlander R, Banno B, Elbe D, Horvath G. 2022. "Psychiatric manifestations in patients with bipterin defects" *Neuropediatrics*, [Online ahead of print](#)
7. Mick P, **Parfyonov M**, Wittich W, Phillips N, Guthrie D, Pichora-Fuller M. 2018. "Associations between sensory loss and social networks, participation, support, and loneliness: Analysis of the Canadian Longitudinal Study on Aging." *Canadian Family Physician*, 64(1), [e33-e41](#)
8. Petersen CC, Patton DF, **Parfyonov M**, Mistlberger RE. 2014. "Circadian food anticipatory activity: Entrainment limits and scalar properties re-examined." *Behavioral Neuroscience*, 128(6), [689-702](#)
9. Patton DF, Katsuyama AM, Pavlovski I, Michalik M, Patterson Z, **Parfyonov M**, Smit AN, Marchant EG, Chung J, Abizaid A, Storch KF, de la Iglesia H, Mistlberger RE. 2014. "Circadian mechanisms of food anticipatory rhythms in rats fed once or twice daily: clock gene and endocrine correlates." *PLoS ONE* 10(3): [e0120223](#)
10. Gallardo CM, Hsu CT, Gunapala KM, **Parfyonov M**, Chang CH, Mistlberger RE, Steele AD. 2014. "Behavioral and neural correlates of acute and scheduled hunger in C57BL/6 mice." *PLoS ONE* 9(5): [e95990](#)
11. Patton DF, **Parfyonov M**, Gourmelen S, Opiol H, Pavlovski I, Marchant EG, Challet E, Mistlberger RE. 2013. "Photic and pineal modulation of food anticipatory circadian activity rhythms in rodents." *PLoS ONE* 8(12): [e81588](#)
12. Mueller AD, **Parfyonov M**, Pavlovski I, Marchant EG, Mistlberger, RE. 2013. "The inhibitory effect of sleep deprivation on cell proliferation in the hippocampus of adult mice is eliminated by corticosterone clamp combined with interleukin-1 receptor 1 knockout." *Brain, Behavior, and Immunity*, 35, [102-108](#)
13. Mistlberger RE, Kent BA, Chan S, Patton DF, Weinberg A, **Parfyonov M**. 2012. "Circadian clocks for all meal times: anticipation of 2 daily meals in rats." *PLoS ONE* 7(2): [e31772](#)

BOOK CHAPTERS

14. Howard AK, Zurowski M, **Parfyonov M**, Wong V. 2016. *Neuroleptics and movement disorders*. In: Kompoliti K, Metman LV. (eds.) *Encyclopedia of Movement Disorders*. Academic Press.

MANUSCRIPTS IN PREPARATION

15. **Parfyonov M**, Peacock D, Smith J. (Submitted.) "Neonatal cerebral venous sinus thrombosis in the context of maternal SARS-CoV-2 infection"
16. **Parfyonov M**, Porritt, D, Lee J. (Submitted.) "Cortical hand knob paradoxical thromboembolic stroke in an adolescent with secundum atrial septal defect and Paget-Schroetter syndrome" *Child Neurology Open*

HONOURS, AWARDS & GRANTS

BC Children's Hospital Pediatric Subspecialty Research Fellow Award	2020
Weston Family Microbiome Initiative, Proof-of-Principle Grant (\$150,000)	2019-2021
Rachel Bagnall Arts in Medicine Grant (\$1,000)	2014
Vice-President, Research Undergraduate Student Research Award (\$4,500)	2012
Open Scholarship (\$4,000)	2011
NSERC Undergraduate Student Research Award (\$4,500)	2011
Evelyn & Leigh Palmer Scholarship (\$2,400)	2011
NSERC Undergraduate Student Research Award (\$4,500)	2010

TALKS

Cleveland Clinic, Pediatric Epilepsy Grand Rounds

Ring 20 Chromosome	Oct 5, 2022
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BC Children's Hospital, Pediatric Neuroscience Rounds

Pediatric RCVS.	Apr 22, 2020
Introduction to Metagenomics: Overview and Clinical Applications.	Nov 6, 2019
Pediatric cardiac myxoma causing acute ischemic stroke.	Jan 21, 2019
Neurologic manifestations of systemic lupus erythematosus.	May 1, 2019

Vancouver General Hospital, Grand Rounds

Metabolic myopathies: An introduction and case-based approach.	Mar 25, 2020
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TEACHING EXPERIENCE

BC Children's Hospital

Case-based Neurology teaching for Pediatric Residents: Cranial Nerve Anatomy	Feb 4, 2020
Case-based Neurology teaching for Pediatric Residents: Ataxia	Dec 12, 2019
Case-based Neurology teaching for Pediatric Residents: Status epilepticus	Oct 29, 2019
Case-based Neurology teaching for Pediatric Residents: Transverse Myelitis	Apr 23, 2019
Oncology Teaching for Pediatric Residents: Opsoclonus-Myoclonus Syndrome	Mar 1, 2019

University of British Columbia, Faculty of Medicine

Clinical Skills Tutor: Pediatric OSCE, Neurology exam.	2019-2021
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Simon Fraser University

Teaching Assistant, Introduction to Genetics (BISC 202)	Sep-Dec 2011
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Canadian Neurological Sciences Federation

Examiner for Royal College OSCE preparation program (prepOSCE)	May 2023
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CONFERENCE PRESENTATIONS

1. Vallin C, Markantone D, Cebull P, Chiprean K, Chisholm J, Freund B, Ivaniuk A, Mahadeen A, Martinez D, **Parfyonov M**, Tamula GR, Tsai C, Bektas O, Nair D. Examination in Primarily Non-English Speaking Patients During a Seizure in the Epilepsy Monitoring Unit. Cleveland Clinic Graduate Medical Education Patient Safety Day. Cleveland, OH. March 15, 2023.
2. Vaughan T, Hammoud MS, Pande A, Chu L, Cummins K, McCloskey O, **Parfyonov M**, Doh CY, Edwards A, Sharew B, Greason C, Abushanab E, Gupta A, Marino B, Najm HK, Karamlou T. Utilizing EEG Metrics as Predictors of Neurodevelopmental Outcomes in Neonates Following Cardiac Surgery. American Association for Thoracic Surgery, 103rd Annual Meeting. Los Angeles, CA. May 6-9, 2023.
3. **Parfyonov M**, Alam A, Huang CY, Gill I, Connolly MB, Iles J. Targeted whole exome sequencing in children with early-onset epilepsy: Parent experiences. American Epilepsy Society. Nashville, TN. December 2-6, 2022.
4. Rotenberg A, Hrincu V, Udawadia F, Connolly M, Lawson A, Alam A, **Parfyonov M**, Bacani M, McDonald P, Illes, J. Infographic Resources on Neurotechnology and Paediatric Drug Resistant Epilepsy. 7th Annual BRAIN Initiative Investigators Meeting. Virtual Meeting. June 15-17, 2021.(Poster)
5. **Parfyonov M**, Horvath G. Psychiatric manifestations of BH₄ deficiency. Annual Symposium of the Society for the Study of Inborn Errors of Metabolism (SSIEM). Rotterdam, Netherlands. September 3-4, 2019. (Poster)
6. **Parfyonov M**, Mick P, Pichora-Fuller K, Wittich W. (2016) Association between sensory loss and social outcomes: A preliminary report. Canadian Acoustics, 44(3), 124-125. (Abstract)
7. **Parfyonov M**, Wittich W, Pichora-Fuller K, Mick P. Hearing loss and social engagement in older Canadians. 70th Annual Meeting of the Canadian Society of Otolaryngology - Head & Neck Surgery. Charlottetown, PEI. June 11-14, 2016. (Oral Presentation)
8. **Parfyonov M**, Wittich W, Pichora-Fuller K, Mick P. The association between sensory loss and social networks, social participation, social support and loneliness in older Canadians. The Canadian Geriatrics Society. Vancouver, BC. April 14-16, 2016. (Oral Presentation)
9. Gulzar N, Klaric KA, **Parfyonov M**, Montero M, Wang S, Huarte N, Appellaniz B, Nieva J, Lu S, Scott JK. Optimizing DNA vaccines that target the 2F5 epitope of the membrane proximal external region of HIV-1 gp41. AIDS Vaccine, Barcelona, Spain. October 7-10, 2013. (Poster)
10. Gulzar N, McCully M, **Parfyonov M**, Klaric KA, Hannigan B, Ulas G, DeGrado W, Scott JK. Engineering DNA vaccines expressing the membrane proximal external region of HIV-1 gp41 to optimize exposure of neutralizing epitopes. AIDS Vaccine, Barcelona, Spain. October 7-10, 2013. (Poster)
11. Gulzar N, Klaric KA, **Parfyonov M**, Montero M, Hannigan B, Ulas G, McCully M, Wang S, Huarte N, Appellaniz B, Nieva J, Lu S, DeGrado W, Scott JK. DNA Vaccines that optimally present neutralizing epitopes within the membrane proximal external region of HIV-1 gp41. 22nd Annual Canadian Conference on HIV/AIDS Research, Vancouver, BC. April 10-14, 2013. (Poster)

12. Peterson C, Patton DF, **Parfyonov M**, Opiol H, Pavlovski I, Dattolo T, Mistlberger RE. Another look at circadian limits to entrainment of food anticipatory activity rhythms in rats. 1st Annual Canadian Society for Chronobiology. Toronto, ON. May 24-26, 2013. (Poster)
13. **Parfyonov M**, Patton DF, Opiol H, Pavlovski I, Marchant EG, Mistlberger RE. Food anticipatory circadian rhythms: role of non-circadian factors. Society for Research on Biological Rhythms, Destin, Florida. May 19-23, 2012. (Poster)
14. Patton DF, Marchant EG, **Parfyonov M**, Smit A, Opiol H, Patterson Z, Abizaid A, Storch F, Mistlberger RE. Multiple daily meals: effects on behaviour, peripheral oscillators and associated hormones. Society for Research on Biological Rhythms, Destin, Florida. May 19-23, 2012. (Poster)
15. Mistlberger RE, Patton DF, Luby M, Hsu CT, Kent BA, Chan S, **Parfyonov M**, Marchant EG, Steele AD. New insights into the circadian mechanisms regulating food anticipation. Symposium of circadian rhythms research in Canada, Douglas Mental Health University Institute, Montreal, QC. June 2-3, 2011. (Oral Presentation)
16. **Parfyonov M**, Patton DF, Jaholkowski M, Mistlberger RE. The role of stress in circadian rhythms. North American Undergraduate Psychology Research Conference, Kwantlen Polytechnic University, Richmond, BC. June 3-4, 2010. (Poster)

ACTIVE RESEARCH PROJECTS

Cleveland Clinic

FB-GEN: Use of FaceBook and other social media groups by caregivers of children with developmental epileptic encephalopathies and GENetic epilepsies.

Advisor: Dr. Elia Pestana-Knight

HEMI-SLIM: Long-term seizure and functional outcomes following pediatric epilepsy surgery in children with hemispheric lesions: HEMIsphectomy vs Small LIMited resection.

Advisor: Dr. Ahsan Moosa Naduvil Valappil

Clinical utility of magnetic resonance fingerprinting in the presurgical evaluation of epilepsy patients.

Advisor: Dr. Irene Wang

BC Children's Hospital

EPBiome: Leveraging the gut microbiota in treatment resistant epilepsy.

Advisor: Dr. Linda Huh

MENTORSHIP OF UNDERGRADUATE & INTERN RESEARCH

BC Children's Hospital

Sofia Zhang, UBC Summer Research Internship

May-Sep 2019

Stephanie Kwok, BCCH Research Intern

2019-2020

Danielle Porritt, UBC Undergraduate Research Volunteer

2021-present

PROFESSIONAL ACTIVITIES AND SERVICE

PROFESSIONAL SERVICE

Ad hoc reviewer, <i>American Journal of Neuroradiology</i>	2023-present
<i>Epileptic Disorders</i> Internship Program	2023-present
Ad hoc reviewer, <i>Frontiers in Neurology</i>	2023-present
Residents & Fellows Editorial Board of the <i>Journal of Child Neurology</i>	2020-present
Ad hoc reviewer, Resident & Fellows Section, <i>Neurology</i> journal	2018-present
Ad hoc reviewer, <i>University of British Columbia Medical Journal</i>	2014-2017

UNIVERSITY SERVICE

Resident Representative and Voting Member, UBC Faculty of Medicine	2019-2020
Year 4 Class President, Southern Medical Program, UBC Faculty of Medicine	2016-2017

DEPARTMENT SERVICE

Cleveland Clinic Epilepsy Fellowship

Chief Epilepsy Fellow	2023-present
Journal Club Director	2022-2023

BC Children's Pediatric Neurology Residency Program

Chief Resident	2021-2022
Resident Representative, Training Committee	2020-2021
Wellness Committee	2020-2021
Social Media Director	2020-2022
CaRMS Selection Committee	2019-2021

OUTREACH

Patient Education, Empowering Epilepsy, Cleveland, OH	2023-present
Connect Communities (Acquired Brain Injury Centre), Lake Country, BC	2014-2015
Let's Talk Science, Vancouver, BC	2013-2014
SkinSafe Melanoma Prevention Program, Vancouver, BC	2011-2012
Annual Vancouver Brain Bee, Vancouver, BC	2010-2013

MEMBERSHIPS

Canadian Society for Clinical Neurophysiology	2023-present
American Epilepsy Society	2019-present
Child Neurology Society	2018-present
Canadian Neurological Sciences Federation	2018-present
Canadian Association of Child Neurology	2018-present
American Academy of Neurology	2014-present