

**Curriculum Vitae
Alexander Baumgartner**

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Education:

2016	Doctor of Medicine	The Warren Alpert Medical School of Brown University	
2011	Bachelor of Arts <i>magna cum laude</i>	Gonzaga University	Mathematics, Biology

Postdoctoral Training:

2020 – 2022	Fellow	Movement Disorders	University of Colorado Anschutz Medical Campus
2017 – 2020	Resident	Neurology	Beth Israel Deaconess Medical Center, Harvard Medical School
2016 – 2017	Intern	Internal Medicine	Beth Israel Deaconess Medical Center, Harvard Medical School

Faculty Academic Appointments:

2022 – present	Assistant Professor	Neurology	University of Colorado Anschutz Medical Campus
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Appointments at Hospitals/Affiliated Institutions:

2022 – present	Attending Neurologist	UCHealth Hospital, Aurora, Colorado
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Major Administrative Leadership Positions:

Local

2019 – 2020	Administrative Chief Resident in Neurology	Beth Israel Deaconess Medical Center, Harvard Medical School
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Professional Societies:

2021 – present	Society for Neuroscience	Member
2020 – present	International Parkinson and Movement Disorder Society	Member
2015 – present	American Academy of Neurology	Member
2014 – 2016	American Association for the Advancement of Science	Member, Excellence in Science Program
2013 – 2016	Physicians for a National Health Program	Member

Grant Review Activities:

2022 – present	Movement Disorders Center Pilot Grant Program	University of Colorado Anschutz Medical Campus Ad hoc reviewer
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Editorial Activities:

- **Ad hoc Reviewer**
PLoS ONE (2021)
Neurosurgical Review (2021)
Journal of Integrative Neuroscience (2022)
Military Medical Research (2022)
Brain and Behavior (2022)

Honors and Prizes:

2016	Dr. Stanley M. Aronson Prize	Alpert Medical School, Brown University	Awarded to two graduating medical students for excellence in neuroscience
2016	Alpha Omega Alpha Medical Honor Society	Alpert Medical School, Brown University	
2012	Student Ambassador	Alpert Medical School, Brown University	Selected to represent student body in meetings with donors and prospective students
2011	Honors Program	Gonzaga University	

Report of Funded and Unfunded Projects

Past

2020 – 2022 Sleep assessed by actigraphy and direct recordings of the subthalamic nucleus in Parkinson’s Disease
 University of Colorado Movement Disorders Center Pilot Grant
 Role: Principal Investigator (total funding \$5,000)
 This project sought to obtain a robust assessment of sleep in patients with Parkinson’s Disease using patient-worn actigraphy monitors in combination with recordings of local field potentials from subthalamic nucleus deep brain stimulators.

Current

2022 – 2023 Naturalistic sleep assessed by wearable devices and direct recordings of the subthalamic nucleus in Parkinson's Disease
 Colorado Clinical and Translational Sciences Institute (CCTSI) CO-Pilot Grant
 Role: Principal Investigator (total funding \$30,000)
 This project seeks to expand the above work to a larger number of patients in order to provide an even more robust assessment of the correlation between sleep parameters as obtained from wearable devices and DBS electrodes.

2022 – 2023 Electrophysiological biomarkers of parkinsonian symptoms progression
 Mowry Family Philanthropic Fund
 Role: Principal Investigator (total funding \$59,000)
 This project will examine the utility electrophysiological parameters recorded from surface electroencephalogram, called event-related potentials, as potential biomarkers of cognitive impairment and freezing of gait in patients with Parkinson disease.

Report of Local Teaching and Training

Teaching of Students in Courses:

2018 – 2019	Mind, Brain, and Behavior First year neuroanatomy course	Harvard Medical School
2013 – 2014	Doctoring First year clinical skills course	Alpert Medical School, Brown University

Formal Teaching of Residents, Clinical Fellows and Research Fellows (post-docs):

August 2022	Basics of Deep Brain Stimulation Lecture given to Movement Disorders fellows	University of Colorado Anschutz Medical Campus
2021 – 2022	Myoclonus; Dystonia; Wilson’s Disease Lectures given to Neurology residents	University of Colorado Anschutz Medical Campus Approximately 3 lectures per year
2019 – 2020	Gait Disturbances and Falls; Basic Concepts of Plasma Exchange; Introduction to the Neurologic Exam Lectures given to Neurology residents	Beth Israel Deaconess Medical Center Approximately 4 lectures per year
2019 – 2020	Clinical Evaluation Exercise, a structured patient encounter as part of the Neurology clerkship	Beth Israel Deaconess Medical Center, Harvard Medical School

	Supervisor	Approximately 8 per year
2013 – 2015	Content tutor for first and second-year medical students	Alpert Medical School, Brown University

Clinical Supervisory and Training Responsibilities:

2021 – present	Neurology resident continuity clinic Preceptor	UCHealth Hospital, Aurora, CO Approximately 4 clinics per year
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Formally Mentored Medical and Graduate Students:

2022 – present	Woro George, second year medical student, University of Colorado Anschutz Medical Campus
2022 – present	Matt Kennis, first year medical student, University of Colorado Anschutz Medical Campus

Local Invited Presentations:

No presentations below were sponsored by 3rd parties/outside entities

May 2021	“Novel modalities and techniques in the diagnosis of Parkinson disease and atypical Parkinsonian syndromes” Department of Neurology Grand Rounds University of Colorado School of Medicine
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Report of Clinical Activities and Innovations

Licensure:

2020 – present	Colorado 0063793
2016 – 2020	Massachusetts 268232

Certification:

2020	American Board of Psychiatry and Neurology
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Report of Teaching and Education Innovations

Alpert Medical School, Brown University 2013	I designed and implemented a new learning module for incorporation into the medical school’s cardiology curriculum.
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Report of Education of Patients and Service to the Community

No presentations below were sponsored by 3rd parties/outside entities

Activities

- 2022 “Deep Brain Stimulation for Parkinson Disease” presented at the Parkinson Association of the Rockies
- 2021 “Medications and Therapies Overview” presented at University of Colorado’s Annual Parkinson’s Disease Symposium
- 2021 “Alternative Therapies in Parkinson Disease” presented at the Parkinson Association of the Rockies
- 2021 “Sleep and Fatigue in Parkinson Disease” presented at the Parkinson Association of the Rockies
- 2021 “Psychosis and Cognition in Parkinson Disease” presented at the Parkinson Association of the Rockies
- 2013 – 2014 Certified HIV and Hepatitis C testing and counseling official in the state of Rhode Island
- 2013 Organized sports physicals at a local high school, where students who were unable to see a physician received physical exams to allow them to participate in sports

Report of Scholarship

Peer-Reviewed Scholarship in print or other media:

Research Investigations

Baumgartner AJ, Press DZ, Simon DK. The relationship between olfactory dysfunction and constipation in early Parkinson’s disease. *Mov Disord.* 2021;36(3):781-782. doi:10.1002/mds.28483

Baumgartner A, Coleman S, Swanson B. The cost of the sword: escape performance in male Swordtails. *PLoS ONE.* 2011; 6(1):e15837. doi:10.1371/journal.pone.0015837

Other peer-reviewed scholarship

Baumgartner AJ, Adkins M, Bainbridge J, Leehey MA. Acute akathisia following initiation of opicapone: A case report. *Clin Parkinsonism Relat Disord.* 2022; 7:100154, doi: 10.1016/j.prdoa.2022.100154.

Baumgartner AJ, Thompson JA, Kern DS, Ojemann SG. Novel targets in deep brain stimulation for movement disorders. *Neurosurg Rev.* 2022; 45(4):2593-2613. doi: 10.1007/s10143-022-01770-y.

Kern D, Korsmo M, **Baumgartner AJ**, Kramer D, Ojemann S, Case M, Holt-Becker AB, Raike R, Thompson JA. Methylphenidate effects on a clinically informative oscillatory signal within the subthalamic nucleus in Parkinson's disease during deep brain stimulation programming. *Brain Stimul.* 2022; 15(3):747-749. doi: 10.1016/j.brs.2022.04.019.

Baumgartner AJ, Kushida CA, Summers MO, Kern DS, Abosch A, Thompson JA. Basal ganglia local field potentials as a potential biomarker for sleep disturbance in Parkinson’s disease. *Front Neurol.* 2021; 12:765203. doi:10.3389/fneur.2021.765203

Rossi KC, **Baumgartner AJ**, Goldenholz SR, Goldenholz DM. Recognizing and refuting the myth of tongue swallowing during a seizure. *Seizure.* 2020; 83:32–37. doi:10.1016/j.seizure.2020.09.023

Baumgartner AJ, Ahrendsen JT, Varma H, Ward A, Frank S. Cardiac angiosarcoma presenting as a solitary brain metastasis. *Neurol Clin Neurosci*. 2020; 8(6):426–427. doi:10.1111/ncn3.12439

Baumgartner A, Quesenberry PJ. A unique neuropsychiatric syndrome in variant Hereditary Coproporphyrinuria: Case report and review of the literature. *J Hematol*. 2017; 6(1):21-24. doi:10.14740/jh315w

Baumgartner A, Anthony D. The decline of the autopsy in Rhode Island and nationwide: Past trends and future directions. *R I Med J*. 2016; 99(10):36-38.

Professional educational materials or reports, in print or other media:

Reznickova N, Buslovich S, Seeberger L, Overstreet N, **Baumgartner A**, Korsmo M, Smith D. Parkinson's Disease & Psychosis in the Post-Acute and Long-Term Care Setting. AMDA – The Society for Post-Acute and Long-Term Care Medicine. Clinical Practice Pocket Guide Series. June 2021.

Abstracts, Poster Presentations and Exhibits Presented at Professional Meetings:

Hirt L, **Baumgartner AJ**, Kern DS, Kramer D, Ojemann SG, Thompson JA. Targeted versus actual stimulated areas in deep brain stimulation surgery for essential tremor. Poster presented at: University of Colorado Neurosurgery Research Symposium. 2022 May 3; Aurora, CO.

Baumgartner AJ, Hirt L, Kern DS, Thompson JA. Naturalistic sleep in Parkinson's disease assessed by actigraphy and direct recordings of the subthalamic nucleus. Poster presented at: Neuroscience 2021. 50th Annual Meeting of the Society for Neuroscience. 2021 November 8-11.

Baumgartner AJ, Roberts TJ. Dissecting the determinants of active and passive force enhancement in skeletal muscle. Poster presented at: Brown University Annual Research Symposium; 2013 December 4-5; Providence, RI.