

NIH BIOGRAPHICAL SKETCH COMMON FORM

Name: Bujarski, Krzysztof Adam

Persistent Identifier (PID) of the Senior/Key Person: <https://orcid.org/0000-0002-1329-5085>

Position Title: Section Chief of Epilepsy

Organization and Location: Dartmouth-Hitchcock Medical Center, Lebanon, New Hampshire, United States

PROFESSIONAL PREPARATION

INSTITUTION AND LOCATION	DEGREE	Start Date	Completion Date	FIELD OF STUDY
Thomas Jefferson University, Philadelphia, Pennsylvania, United States	Fellow	07/2006	06/2008	Epilepsy
Northwestern University, Chicago, Illinois, United States	Fellow	07/2004	06/2006	Behavioral Neurology
Loyola Medical Center, Chicago, Illinois, United States	Resident	07/2000	06/2004	Neurology
Poznan University of Medical Sciences, Poznan, Not Applicable, N/A, Poland	Doctor of Medicine (MD)	08/1996	06/2000	Medicine
University of Chicago, Chicago, Illinois, United States	Bachelor of Arts (BA)	09/1991	06/1995	Biology

Appointments and Positions

2021 - 2026	Section Chief of Epilepsy, Dartmouth-Hitchcock Medical Center, Lebanon, New Hampshire, United States
2023 - 2026	Professor of Neurology, Dartmouth-Hitchcock Medical Center, Lebanon, New Hampshire, United States
2014 - 2023	Associate Professor, Dartmouth-Hitchcock Medical Center, Lebanon, New Hampshire, United States
2008 - 2014	Assistant Professor, Dartmouth-Hitchcock Medical Center, Lebanon, New Hampshire, United States

Products**Products Closely Related to the Proposed Project**

- Guillory SA, Bujarski KA. Exploring emotions using invasive methods: review of 60 years of human intracranial electrophysiology. Soc Cogn Affect Neurosci. 2014 Dec;9(12):1880-9. PubMed Central PMCID: [PMC4249472](https://pubmed.ncbi.nlm.nih.gov/PMC4249472/).
- Bujarski KA, Song Y, Xie T, Leeds Z, Kolankiewicz SI, Wozniak GH, Guillory S, Aronson JP, Chang L, Jobst BC. Modulation of Emotion Perception via Amygdala Stimulation in Humans. Front Neurosci. 2021;15:795318. PubMed Central PMCID: [PMC8864965](https://pubmed.ncbi.nlm.nih.gov/PMC8864965/).
- Quon RJ, Leslie GA, Camp EJ, Meisenhelter S, Steimel SA, Song Y, Ettinger AB, Bujarski KA, Casey MA, Jobst BC. 40-Hz auditory stimulation for intracranial interictal activity: A pilot study. Acta Neurol Scand. 2021 Aug;144(2):192-201. PubMed Central PMCID: [PMC8832987](https://pubmed.ncbi.nlm.nih.gov/PMC8832987/).
- Horak PC, Meisenhelter S, Song Y, Testorf ME, Kahana MJ, Viles WD, Bujarski KA, Connolly AC, Robbins AA, Sperling MR, Sharan AD, Worrell GA, Miller LR, Gross RE, Davis KA, Roberts DW, Lega B, Sheth SA, Zaghoul KA, Stein JM, Das SR, Rizzuto DS, Jobst BC. Interictal epileptiform discharges impair word recall in multiple brain areas. Epilepsia. 2017 Mar;58(3):373-380. PubMed Central PMCID: [PMC5339047](https://pubmed.ncbi.nlm.nih.gov/PMC5339047/).
- Bujarski KA, Hirashima F, Roberts DW, Jobst BC, Gilbert KL, Roth RM, Flashman LA, McDonald BC, Saykin AJ, Scott RC, Dinnerstein E, Preston J, Williamson PD, Thadani VM. Long-term seizure, cognitive, and psychiatric outcome following trans-middle temporal gyrus amygdalohippocampectomy and standard temporal lobectomy. J Neurosurg. 2013 Jul;119(1):16-23. PubMed Central PMCID: [PMC4074539](https://pubmed.ncbi.nlm.nih.gov/PMC4074539/).

Certification:

I certify that the information provided is current, accurate, and complete. This includes, but is not limited to, information related to current, pending, and other support (both foreign and domestic) as defined in 42 U.S.C. § 6605.

In accordance with Section 10632 of the CHIPS and Science Act of 2022 (42 U.S.C. § 19232), each individual identified as a senior/key person must certify that they are not a party to a malign foreign talent recruitment program.

Research Security Training Requirement for Federal Award Personnel: In accordance with Section 10634 of the CHIPS and Science Act of 2022 (42 U.S.C. § 19234), each individual identified as a senior/key person must certify that they have completed the requisite research security training that meets the requirements specified in Item 2 of Important Notice No. 149 within 12 months prior to proposal submission.

Misrepresentations and/or omissions may be subject to prosecution and liability pursuant to, but not limited to, 18 U.S.C. §§287, 1001, 1031 and 31 U.S.C. §§3729-3733 and 3802.

Certified by Bujarski, Krzysztof Adam in SciENcv on 2026-06-01 18:26:14

NIH BIOGRAPHICAL SKETCH SUPPLEMENT

Name: Bujarski, Krzysztof Adam

Persistent Identifier (PID) of the Senior/Key Person: <https://orcid.org/0000-0002-1329-5085>

Position Title: Section Chief of Epilepsy

Organization and Location: Dartmouth-Hitchcock Medical Center, Lebanon, New Hampshire, United States

Personal Statement

I am a neurologist fellowship-trained in epilepsy and behavioral neurology with expertise in intracranial electrophysiology, intraoperative neurophysiologic monitoring, and functional mapping of human neural networks. My clinical and research work centers on the use of electrophysiologic recordings and electrical brain stimulation to characterize neural circuitry during invasive neurosurgical procedures and epilepsy surgery evaluations.

My research program employs intracranial EEG in patients with refractory epilepsy to investigate the neurophysiologic basis of cognition, behavior, and large-scale brain network organization. Through this work, my laboratory has developed and refined approaches for acquisition of high-fidelity electrophysiologic signals, multimodal neurophysiologic analysis, anatomical localization, and integration of electrophysiologic data with advanced neuroimaging methods. We have extensive experience in the interpretation of neural signals obtained during invasive monitoring and stimulation-based functional interrogation of cortical and subcortical pathways.

My prior NIH-supported work includes completion of an R21 award in 2024 focused on the use of intracranial electrophysiology and targeted electrical brain stimulation to investigate human neural circuitry and mechanisms of neuromodulation. I am currently serving as a sub-investigator on an NIH R01 utilizing intracranial EEG to study the neural mechanisms underlying social perception in humans. These efforts have provided extensive experience in human intracranial recording methodologies, neural signal interpretation, and network-level analysis of cognitive and behavioral processes.

In this project, I will contribute expertise in the interpretation and analysis of intraoperative neurophysiologic monitoring data and its correlation with tractography-derived structural connectivity. My experience integrating electrophysiologic recordings with neuroanatomical localization and network-level analyses uniquely positions me to assist in defining the functional relevance of critical white matter pathways during neurosurgical intervention.

Honors

2023 - 2026	Professor of Neurology, Dartmouth-Hitchcock Medical Center
2023 - 2026	President, Eastern Association of Electroencephalographers
2021 - 2026	Section Chief of Epilepsy, Dartmouth-Hitchcock Medical Center
2021 - 2026	Director of Dartmouth Comprehensive Epilepsy Center, Dartmouth-Hitchcock Medical Center
2014 - 2022	Program Director of Epilepsy Fellowship, Dartmouth-Hitchcock Medical Center
2012 - 2014	President, Northern New England Neurological Society

Contributions to Science

1.

1. Development of Human Intracranial Electrophysiology and Neuromodulation Approaches for Cognitive and Psychiatric Disorders

My research program focuses on the development of human intracranial electrophysiology and neuromodulation approaches to investigate and treat cognitive and psychiatric disorders. I established and currently lead a multidisciplinary collaboration between Dartmouth-Hitchcock Medical Center, Dartmouth College, and the Thayer School of Engineering devoted to the acquisition and analysis of intracranial neural recordings in humans. This work has contributed to the development of experimental paradigms integrating intracranial EEG, electrical brain stimulation, and behavioral neuroscience to investigate affective processing and neural circuit modulation in humans.

2.

1. Contributions to Human Intracranial Electrophysiology and Neural Mechanisms of Cognition

My work has contributed to the use of human intracranial electrophysiology to study cognition, emotion, and large-scale neural network function. This research has utilized invasive recordings in patients undergoing epilepsy monitoring to characterize neural dynamics underlying memory, social cognition, and affective processing. These efforts have helped advance mechanistic understanding of how distributed neural networks support human cognitive function and how pathological electrophysiologic activity disrupts cognition.

3.

1. Development of Neuromodulation Strategies for Depression in Patients with Epilepsy

I am collaborating with investigators at the White River Junction VA Medical Center to develop novel transcranial magnetic stimulation (TMS) approaches for treatment-resistant depression in patients with epilepsy. This work resulted in development of a rapid low-frequency TMS induction protocol designed to minimize seizure risk while effectively treating depressive symptoms in this medically complex population. These studies contribute to the growing field of precision neuromodulation in neuropsychiatric disease.

4.

1. Contributions to Understanding Cognitive and Psychiatric Comorbidities of Epilepsy

My earlier research focused on the cognitive, psychiatric, and psychosocial complications of epilepsy and epilepsy surgery. This work examined social cognition, psychiatric outcomes, functional seizures, and long-term neurobehavioral outcomes following epilepsy surgery. These studies helped characterize the broader neuropsychiatric burden of epilepsy and contributed to improved understanding of patient-centered outcomes in epilepsy care.

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