

**CURRICULUM VITAE**  
**DANIEL ALEXANDER ALBER**



**EDUCATION**

M.D.	<b>New York University Grossman School of Medicine</b> Vilcek Merit Scholar	C/O 2026
Sc.B.	<b>Brown University</b> Honors in Applied Mathematics-Biology Thesis: <i>"A Statistical Framework for the Analysis of Directed Interactions in Stereotactic EEG Data"</i>	May 2022

**AWARDS & HONORS**

2023 NREF Medical Student Summer Research Fellowship Neurosurgery Research and Education Foundation	Summer 2023
Vilcek Full Cost-of-Attendance Merit Scholarship NYU Grossman School of Medicine	2022-2026
Associate Member, Sigma Xi Scientific Research Honors Society Brown University	May 2022
Departmental Honors, Division of Applied Mathematics Brown University	May 2022
2022 Win Wilson '51 Service Award Brown University Swimming and Diving	April 2022
2021 Karen T. Romer Undergraduate Teaching and Research Award Truccolo Lab, Brown University	May 2021
Featured Article, Journal of Surgical Research Center for Surgery and Public Health, Brigham and Women's Hospital	January 2021
Volunteer of the Month, Rhode Island Free Clinic	November 2020
USA Swimming Scholastic All-American	2016-2018

**PUBLICATIONS**

1. Jiang C, Bhattacharya A, Linzey JR, Joshi R, Jik Cha S, Srinivasan S, **Alber D**, Kondepudi A, Urias E, Pandian B, Al-Holou WN, Sullivan SE, Thompson BG, Heth JA, Freudiger CW, Khalsa

SS, Pacione DR, Golfinos JG, Camelo-Piragua S, Orringer DA, Lee H, Hollon, TC. “*Rapid Automated Analysis of Skull Base Tumor Specimens Using Intraoperative Optical Imaging and Artificial Intelligence*” (Neurosurgery, 2022).

2. **Alber DA**, Dalton MK, Uribe-Leitz PT, Ortega G, Salim A, Haider AH, Jarman MP. “*A Multistate Study of Race and Ethnic Disparities in Access to Trauma Care*” (Journal of Surgical Research, 2021).

## ABSTRACTS & POSTERS

1. Sangwon KL, Liu A, Rabbin-Birnbaum C, Wiggan DD, **Alber DA**, Nossek E. “*Predicting STA-MCA Anastomosis Patency Using FLOW800*”. 2023 European Association of Neurosurgical Societies.
2. Movahed-Ezazi M et. al. (including **Alber D**). “*Application of Stimulated Raman Histology as a Surrogate to Oil Red O for Intraoperative Diagnosis of Hemangioblastoma*”. 2023 American Association of Neuropathologists. Monterey, CA.
3. Movahed-Ezazi M et. al. (including **Alber D**). “*Clinical Validation of Stimulated Raman Histology for Rapid Intraoperative Diagnosis of CNS Tumors*”. 10th World Digital Pathology & AI UCG Congress. Berlin, Germany.
4. Kurland D, **Alber D**, Lau D. “*What Are We Transfusing? A Prospective Trial Evaluating the Quality of Intraoperatively Salvaged Red Blood Cells in Spinal Deformity Surgery.*” 2023 Spine Summit. Miami, FL.
5. Kurland D, **Alber D**, Lau D. “*What Are We Transfusing? A Prospective Trial Evaluating the Quality of Intraoperatively Salvaged Red Blood Cells in Spinal Deformity Surgery.*” 2023 International Meeting on Advanced Spine Techniques. Dublin, Ireland.
6. Kurland D, **Alber D**, Smith A, Hilbert T, Lau D. “*Defining the Quality of Intraoperatively Salvaged Blood in Spinal Deformity Surgery and its Suitability for Autologous Transfusion: Preliminary Results of a Prospective Study.*” Global Spine Congress 2023. Prague, Czech Republic.
7. Nasir-Moin M et. al. (including **Alber D**) “*Quantitative Analysis of Tumor Cell Density and Protoporphyrin IX Fluorescence in Glioma Patients Using Paired Stimulated Raman Histology and Two-photon Excitation Fluorescence Microscopy*”. 2022 Society for Neuro-Oncology. Tampa Bay, FL.
8. Orringer DA et. al. (including **Alber D**) “*Cellular localization of protoporphyrin IX in glioblastoma.*” 2022 American Academic of Neurological Surgery. Colorado Springs, CO
9. Bhattacharya A, **Alber D**, Hollon TC. “*Single-Cell Phenotyping Using Optical Imaging and Artificial Intelligence.*” 2022 Machine Learning for Healthcare. Durham, NC.
10. Shaikhouni A, Pindrik J, Arredondo K, Ostendorf A, **Alber D**, Ahrens S, Beatty C. “*Invasive Investigation of Thalamocortical Epileptic Network Activity to Select Candidates for Deep Brain Stimulation of the Centromedian Nucleus Among Patients With Medically Intractable Epilepsy.*” Oral Presentation. 2022 American Society for Stereotactic and Functional Neurosurgery. Atlanta, GA.
11. Shaikhouni A, **Alber DA**, Pindrik J, Ostendorf A, Beatty C, Ahrens S, Arredondo K. “*Invasive Investigation of Thalamocortical Epileptic Network Activity to Select Candidates for Deep Brain*

*Stimulation of the Centromedian Nucleus among Patients with Medically Intractable Epilepsy.*” Poster. 2021 Nationwide Children’s Hospital Surgical Research Day. Columbus, OH.

12. **Alber DA**, Li TS, Dalton MK, Uribe-Leitz PT, Jarman MP. “*Prehospital Management of Traumatic Brain Injury: A Descriptive Analysis from the NEMSIS Database.*” Poster. 2020 Brown University Public Health Research Day. Providence, RI.
13. Orlas C, Jarman MP, Uribe-Leitz PT, Castillo-Angeles M, **Alber DA**, Herrera-Escobar J, Nehra D. “*Is There a ‘Weekend Effect’ for Traumatically Injured Patients in the United States?*” 2020 Academic Surgical Congress. Orlando, FL.
14. **Alber DA**, Uribe-Leitz PT, Ortega G, Salim A, Haider AH, Jarman MP. “*Multistate Study of Disparities in Trauma Care: Are People of Color at Higher Risk of Under-triage?*” 2019 Academic Surgical Congress. Houston, TX.

## EXTRACURRICULAR ACTIVITIES

Editorial Board, Agora Arts & Humanities Magazine, NYU Grossman SOM	2023-present
Volunteer, Hepatitis Project, NYU Grossman School of Medicine	2023-present
Co-President, AANS Student Chapter, NYU Grossman School of Medicine	2022-present
Project Lead, 1-on-1 Mentoring for Admitted Students, NYU Grossman SOM	2022-present
Admissions Ambassador, NYU Grossman School of Medicine	2022-present
Meiklejohn First-Year Advisor, Brown University	2020-2022
Applied Mathematics Peer Advising Leader, Brown University	2020-2022
Volunteer Medical Assistant, Rhode Island Free Clinic	2020-2022
NCAA Division I Athlete, Brown University Varsity Men’s Swimming and Diving	2018-2022
Volunteer, Rhode Island Food Bank	2018-2020
Mathematics Grader, Calculus II, Brown University	Spring 2021
Teaching Assistant, Organic Chemistry I, Brown University	Summer 2020
Annual Fundraiser, 2021 Fundraising Team Captain, Swim Across America RI	2018-2021

## PROFESSIONAL & ACADEMIC MEMBERSHIPS

American Association of Neurological Surgeons	2022-present
Congress of Neurological Surgeons	2022-present

## LANGUAGES

English (Native)  
Russian (Native)

## OUTSIDE INTERESTS

Art and Architecture  
Opera  
Photography

Electric Guitar