

CURRICULUM VITAE
Aaron M. Carlson, M.D.

Assistant Professor, Department of Neurology
Neurohospitalist & Neurovascular Neurology and Neuroinfectious Diseases
University of Colorado, Anschutz Medical Campus
12401 E 17th Ave, Mailstop L950 Aurora, CO 80045
Office: (720) 848-8529
Aaron.2.Carlson@cuanschutz.edu

EDUCATION

Degrees

- 2004-2007 University of Florida (Gainesville, FL), Bachelor of Science, Biochemistry, *summa cum laude*
- 2009-2013 Mayo Clinic School of Medicine (Rochester, MN), Medical Doctor (MD)

Clinical Training

- 6/2013-6/2014 Cedars-Sinai Medical Center (Los Angeles, CA), Preliminary Resident Department of Internal Medicine
- 7/2014-6/2017 UCLA Medical Center (Los Angeles, CA), Neurology Resident
Department of Neurology
Director and mentor: Charles Flippen II, MD, FAAN
- 7/2017-6/2018 Stanford University Comprehensive Multiple Sclerosis Center (Palo Alto, CA), Clinical Fellow, Multiple Sclerosis and Neuroimmunology
Department of Neurology
Directors: Jeffrey Dunn, MD, FAAN and Lucas Kipp, MD

PROFESSIONAL APPOINTMENTS

Academic Faculty Positions

- 7/2018-5/2020 Assistant Professor, Department of Neurology
Multi-mission Track
Fixel Center for Neurological Diseases at UF Health
University of Florida, College of Medicine (Privileges at UFHealth/Shands)
- 5/2020-present Assistant Professor, Department of Neurology
University of Colorado, Anschutz Medical Campus (Privileges at UCHHealth Anschutz)

Attending Neurologist Positions/Clinical Service Responsibilities

- 2018-2020 Assistant Professor, Department of Neurology, University of Florida
- Outpatient MS/neuroimmunology clinic (3-6 half-days/week)
 - Inpatient general neurology service coverage (8-10 weeks/year)
 - Fellow clinic attending (1 half-day/week)
 - Resident continuity clinic attending (1 half-day/week)

Aaron M. Carlson

- Inpatient neuroimmunology consult service

2020-present Assistant Professor, Department of Neurology, University of Colorado

- Inpatient neurology service coverage, ~14-20 weeks per year, including: general, consult, stroke, and telestroke services
- Hospital follow-up clinic, fellow clinic, approximately 1 half-day per week

Administrative Positions

2018-2020 Director, Multiple Sclerosis and Neuroimmunology Conference, University of Florida, Department of Neurology

2019-2020 Director, Inpatient Consult, University of Florida, Department of Neurology

2021-2023 Co-Director, Advanced Neurosciences, IDPT 8037 0.2 FTE, University of Colorado, College of Medicine

2022-present Director, Clerkship
Director, Medical Student Education
University of Colorado, Department of Neurology

2023-present Assistant Director, Nervous System, IDPT 5022 0.1 FTE, University of Colorado, College of Medicine

2023-2024 Liaison, Neurology Subspecialty, University of Colorado, College of Medicine

2024-present Clinical Content Director, Neurology, 0.1 FTE

2024-present Director, Advanced Neurosciences, IDPT 8037, 0.3 FTE, University of Colorado, College of Medicine

Hospital Appointments

2018-2020 University of Florida Health Shands Hospital (Gainesville, FL)

2020-present University of Colorado Hospital / UCHealth (Aurora, CO)

- UCHealth Stroke and Brain Aneurysm Center
- Neurosciences Center
- Anschutz Inpatient Pavilion
- Anschutz Inpatient Pavilion 2

Telestroke Appointments

- Greeley Hospital- Greeley, CO
- Greeley Freestanding ED- Greeley, CO
- Medical Center of the Rockies- Loveland CO
- Poudre Valley Hospital- Fort Collins, CO
- Harmony Campus- Fort Collins, CO
- Long's Peak Hospital- Longmont, CO
- Yampa Valley Hospital- Steamboat Springs, CO
- Broomfield Hospital- Broomfield, CO
- Highlands Ranch Hospital- Highlands Ranch, CO

Aaron M. Carlson

- Ivinson Memorial Hospital- Laramie, WY
- Mobile Stroke Unit Transport- Colorado Springs and Aurora, CO
- Memorial Hospital North- Colorado Springs, CO
- Memorial Central- Colorado Springs, CO
- Grandview Hospital- Colorado Springs, CO
- Pikes Peak Regional Hospital- Woodland Park, CO
- Parkview Medical Center- Pueblo, CO
- Pueblo West Hospital- Pueblo, CO
- Spanish Peaks Regional Hospital Walsenberg, CO
- Mt. San Rafael Hospital- Trinidad, CO
- Prowers Medical Center- Lamar, CO
- Valley View Hospital Glenwood Springs, CO

HONORS AND AWARDS

- | | |
|------|--|
| 2007 | Eta Sigma Phi (classics honors society) |
| 2007 | Phi Beta Kappa |
| 2007 | <i>Summa cum laude</i> , University of Florida |
| 2013 | American Academy of Neurology Medical Student Prize for Excellence |
| 2016 | Collin's Day Award, UCLA, Department of Neurology |
| | - Annual award for best resident presentation at the department research symposium. |
| 2017 | Augustus S. Rose Award, UCLA, Department of Neurology |
| | - Annual resident teaching award given to one member of graduating class. |
| 2018 | Teacher-Scholar Program, University of Florida, College of Medicine |
| | - Recruitment program providing salary support for junior faculty members who have demonstrated excellence in teaching. |
| 2020 | Exemplary Teacher Award, University of Florida, College of Medicine |
| 2021 | Student Teaching Award, University of Colorado, College of Medicine, Department of Neurology |
| 2021 | Recognition of Excellence |
| | - Student-driven award for faculty while on clinical rotations
University of Colorado, College of Medicine |
| 2022 | Top Doctor, Neurology, <i>5280 Magazine</i> |
| 2022 | Abstract award, Neurotherapeutics Symposium, University of Rochester Medical Center |
| | - Diversity, Equity, and Inclusion (DEI) outstanding abstract for demographics and treatment project in people with MS in a highly diverse population |
| 2022 | Outstanding Abstract, American Academy of Neurology |
| | - Awarded for abstract: "Longitudinally Integrated Clerkships and Interwoven Learning Experiences: Adapting Neuroscience Education to Evolving Medical School Curricula" |
| 2023 | Recognizing You, UCHealth |
| | - Clinical Professionalism award for excellent patient and family communication |
| 2024 | A.B. Baker Teacher Recognition Award, American Academy of Neurology |
| 2024 | 'Starling' Award, award given to finalists for best educators as selected by the Class of 2027, MD program |

PROFESSIONAL ACTIVITIES

National Organization Committees

2021-2022 American Academy of Neurology Subcommittee for Health Services Research

Symposia

2020 Neurology on the Hill, American Academy of Neurology
February 24th-25th, 2020

Faculty Development

2022 Principles of Medical Education: Maximizing Your Teaching Skills. *Harvard Medical School*. October 12th – 14th, 2022

2023 NBME Invitational Conference for Educators (NICE) Workshop. *National Board of Medical Examiners*. June 6th, 2023.

2023-2024 Teaching Scholar Program. 0.1 FTE. Certificate program and scholarly project which occurs over 18 months focused on incorporating adult education best practices into medical trainee education at multiple levels. Competitive award from the Academy of Medical Educators, *University of Colorado*.

2024 Mentorship Academy. Day-long program attended on 11/4/2024 comprised of local and national leaders with a focus on mentorship and academic excellence ([website](#)).

Professional & Research Society Memberships

2013-present Member, Mayo Clinic Alumni Association

2013-present Member, American Academy of Neurology

2017-present Section Member, American Academy of Neurology

- Multiple Sclerosis

- Autoimmune Neurology

- Neurohospitalist

2017-2021 Member, Consortium of Multiple Sclerosis Centers

2019-2020 Board member, Florida Society of Neurology

2019-2020 Healthcare Provider Council, National Multiple Sclerosis Society

2024-present Fellow, Academy of Medical Educators, University of Colorado

Institutional Committees

University of California, Los Angeles, Department of Neurology

2014-2017 Program Evaluation Committee, Resident member of the review committee for the adult neurology residency program.

University of Colorado, Department of Neurology

2020-2022 Program Evaluation Committee, Faculty member of the review committee for the adult neurology residency program.

2020-present	Clinical Competency Committee, Faculty member of the ACGME-required committee to evaluate performance and abilities of resident trainees.
2021-present	Medical Student Grading Committee
2023-present	Residency Recruitment Committee
2024-present	Chair, Recruitment committee, Resident Director for the Neurology residency program.

University of Colorado, School of Medicine

Curriculum Evaluation

2021-present	Advanced Sciences Curriculum Committee
2023-present	Plains Curriculum Committee
2023-present	Alpine and Summit Curriculum Committee
2024-present	Foothills Curriculum Committee
2024-present	Clinical Content Director Committee

Recruitment

2021-2022	Chair, Recruitment Committee, Global Health and Underserved Populations Clinical Co-Director for the Advanced Integrated Sciences Course
2023	Chair, Recruitment Committee, Resident Director for the Neurology residency program.
2024	Member, Recruitment Committee, Course Director, IDPT 8038 Cardiology Connections
2024	Chair, Recruitment Committee, Course Director, IDPT 8039 Advanced Immunology & Immunotherapy

LICENSURE

2014-present	California Medical Board (<i>active-retired</i>)
2014-present	US Department of Justice Drug Enforcement Administration Active, Controlled Substance Registration Certificate
2017-2020	Florida Board of Medicine
2020-present	Colorado Medical Board
2020-present	Wyoming Board of Medicine
2022-present	Nebraska Medical Board

BOARD CERTIFICATION

2017-present	Diplomate (Neurology), American Board of Psychiatry & Neurology (September 2017 – 2027)
--------------	---

Aaron M. Carlson

EDITORIAL RESPONSIBILITIES

Editorial Positions

- 2019 *BMC Practical Neurology*. Chief medical editor for multiple sclerosis issue published February 2019
- 2022-present Editorial Board, *The Neurohospitalist*

Journal ad-hoc reviewer

- 2019-present *Journal of Neurological Sciences*
- 2019-present *eNeurologicalSci*
- 2020-present *The Neurohospitalist*
- 2022-present *Neurology: Clinical Practice*
- 2022-present *Multiple Sclerosis and Related Disorders*
- 2024-present *Frontiers in Immunology*
- 2024-present *Neurology*

TEACHING SERVICE/ MENTORING

Teaching/mentorship provided to others during own training

- 2012 Pathology course Teaching Assistant
Mayo Clinic, College of Medicine
- 2013 Neurology clerkship instructor
Presented various 60-minute didactic lectures
Mayo Clinic, College of Medicine
- 2016-2017 Resident assistant to the Neurology clerkship
UCLA, Department of Neurology
- 2017-2018 Director and lecturer, Neuroimmunology division conference
Stanford University, Department of Neurology

Teaching (didactic, clinical)

- 2018-2020 Assistant Professor
University of Florida, Department of Neurology
Responsible for the supervision and teaching of medical students,
internal medicine residents, neurology residents, and neuroimmunology fellows on
inpatient consults, inpatient wards, and outpatient clinic.

Aaron M. Carlson

Audience	Teaching Roles/Lectures
Medical students	<u>University of Florida</u> - Approach to Aphasia, monthly recurring lecture on clinical localization of aphasia - Clinical Lab Director, 2 nd year neuroscience course (BMS6020, 2018-2020). Responsible for TA training, 2 lectures per block, 8 laboratory sessions, and development of 4 lesion localization sessions
Residents	<u>University of Florida</u> - Emergency Medicine program, lectures on basics of demyelinating illnesses (2019, 2020) - Morning report, recurring for inpatient neurology teams on inpatient and outpatient case-based presentations (2018-2020) - Neuroimmunology curriculum for resident education, recurring yearly didactics (2018-2020) - Yearly neuroanatomy review, three-part series for resident noon conference (2018-2020) - Recurring mentor for resident education chief, pertaining to design and implementation of weekly resident didactics
Fellows	<u>University of Florida</u> - Lectures on demonstrative cases for differential of demyelinating disease, journal clubs, and focused topics as part of a rotating didactic curriculum (2018-2020)

2021-present

Assistant Professor
 University of Colorado, Department of Neurology
 Responsible for the supervision and teaching of medical students, internal medicine residents, neurology residents, and neurohospitalist fellows on inpatient consults, inpatient wards, and outpatient clinic.

Audience	Teaching Roles/Lectures
Medical students	- Clerkship Director and Director of Medical Student Education - Advanced Science Course Co-Director (see below) - Assistant Director, Nervous System Course (see below) - Subspecialty liaison (see below) - Case review and lecturer, Developing our Clinical Skills (DOCS) Longitudinal Experience (2022-present)

Aaron M. Carlson

	- PBL session leader (2020-present)
Residents	<ul style="list-style-type: none"> - Lecturer during various blocks for neurology resident didactics - Active revision of neurology didactic content with pilot of TBL format in 2023 - Rotating lectures and case series directed at residents on the inpatient services, taught approximately 3 x week while on service (2020 – present) - Professor rounds, a weekly case presentation of difficult or interesting cases. Supervising a pre/post intervention study of format change to improve resident interactivity.
Fellows	- Lectures on demonstrative cases for differential inpatient neurological diseases. Participant in case review didactics.

2021-present

Advanced Science Course Co-Director for Neuroscience transitioned to Advanced Science Course Director for Neuroscience in 2024

- FTE funded position from the Dean’s office of the medical school
- Responsible for clinical and didactic curriculum development as part of the larger longitudinal curriculum change at University of Colorado
- Curriculum development - includes funded awards to develop neuroradiology educational curriculum, integration of anatomy specimens with neuroradiology, acute stroke simulation.
- Creation and review of 597 clinical placements, 71 assessment questions, 3 hours of lecture content, a neuroradiology interactive experience, as well as lecturer and preceptor responsibilities for 2022.
- Creation of 15 hours of TBL content, 6 weeks of pre-work assignments, ~500 clinical placements, and ~50 new assessment items for 2023.
- Revision of ~25 hours of didactic content, creation of 12 hours of new content, 30 new assessment items, review of ~150 assessment items, direct teaching of ~15 hours, and assumption of Director Role for 2024.

2023-present

Assistant Director, Nervous System Course

- FTE funded from the Dean’s office of the medical school
- Coordination and revision of lecture materials, personally generating and delivering 8.5 hours of educational content, and review, revision, and creation of assessment items (~320 items used in course quizzes and exams).

2023-present

Subspecialty liaison transitioned to Clinical Content Director

- 0.05 FTE recommended position. Responsibilities include student mentoring, matching students with faculty for scholarly projects, and interfacing with the School of Medicine on didactic content throughout all four years of the MD curriculum.

Aaron M. Carlson

- In 2024, this transitioned to the Clinical Content Director role, which encompasses the above roles at 0.1 FTE, as well as further collaboration and development of programs within the Developing Our Clinical Skills (DOCS) and Alpine curriculum

2023-present Director of Medical Student Education for the Department of Neurology
 - Supervisory role encompassing the above noted positions, as well as clerkship, elective, and acting intern position supervision.

General (non-research) mentoring

Formal fellowship mentorship

2018-2019	Buse Sengul
2018-2020	Carlos Sollero
2021-2022	Jarrett Leech
2022-2023	Madeline Garza
2023-2024	Ross Crandall

Formal resident mentorship

2018-2020	Torge Rempe
2019-2020	Amol Mehta
2022-2023	Ross Crandall
2022-2024	Barrie Schmidt
2023-present	Sarah Guistolisi
2024-present	Bliss Baird

Research mentor: students and other trainees

2019-2020	External member, PhD committee - Alex Kwiatkowski, University of Florida
2021-2022	Research mentor, Master's of Human Anatomy - Jamie Cronin, MHA
2020-2024	Research mentor, PhD committee - Sue Kwon, PhD candidate, University of Colorado

CURRENT RESEARCH SUPPORT

2022-present NCT04875975. A Study to Test the Efficacy, Safety, and Pharmacokinetics of Rozanolixizumab in Adult Study Participants With Leucine-Rich Glioma Inactivated 1 Autoimmune Encephalitis
Role: Sub-investigator, University of Colorado

PREVIOUS RESEARCH SUPPORT

2011-2012 Progranulin and Serum Leukocyte Protease Inhibitors as Biomarkers in Ovarian Cancer
Mayo Clinic Medical Oncology Seed Grant
Role: Investigator, Mayo Clinic College of Medicine

2017-2018 NCT02688985. Study to Explore the Mechanism of Action of Ocrelizumab and B-Cell Biology in Participants With Relapsing Multiple Sclerosis or Primary Progressive Multiple Sclerosis (OBOE)
Role: Sub-investigator, Stanford University

2017-2018 NCT02792218. Efficacy and Safety of Ofatumumab Compared to Teriflunomide in Patients with Relapsing Multiple Sclerosis (ASCLEPIOS I)
Role: Sub-investigator, Stanford University

2018 NCT01412333. A Study of Ocrelizumab in Comparison to Interferon Beta-1a (Rebif) in Participants with Relapsing Multiple Sclerosis (OPERA II)
Role: Sub-investigator, Stanford University

2018-2020 NCT03500328. Traditional Versus Early Aggressive Therapy for Multiple Sclerosis Trial (TREAT-MS)
Role: Sub-investigator

2018-2020 The North American Registry for Care and Research in Multiple Sclerosis (NARCRMS). A physician/clinician-based registry and longitudinal database of clinical records and patient-centered outcomes. Additionally tracks radiographic data and includes a biorepository.
Role: Site principal investigator, University of Florida

2018-2020 NCT02792218. Efficacy and Safety of Ofatumumab Compared to Teriflunomide in Patients With Relapsing Multiple Sclerosis (ASCLEPIOS I)
Role: Site principal investigator, University of Florida

2020-2022 Aaron M. Carlson (PI, initially 15% FTE)
National Multiple Sclerosis Society Pilot Grant Program
“Prevalence and Demographics of Multiple Sclerosis in the OneFlorida Data Trust”
Amount: \$54,312.50

2022-2024 Aaron M. Carlson (PI, 0% FTE)
Academy of Medical Educators Rymer Innovation Award, University of Colorado, College of Medicine

Aaron M. Carlson

“Novel integration of neuroradiology and pathology in the Advanced Neuroscience Course with BAR Lab sessions and 3-D printed anatomical specimens.”
Amount: \$4,500.00

2023-2024 Aaron M. Carlson (PI, 8% FTE)
Horizon Therapeutics
“Epidemiology, demographics, and onset characteristics of aquaporin-4 positive NMOSD in the University of Colorado Health Care System”
Amount: \$139,389.98

PROGRAM FACULTY, LECTURES AND PRESENTATIONS

Invited presentations at external university grand rounds/national symposia

2018 University of Florida, Department of Neurology Invited Speaker, “High Dimensional Assays for Immunophenotyping in Multiple Sclerosis”

2019 American College of Life Insurers Invited Speaker, “Updates in Multiple Sclerosis”

2019 Florida Society of Neurology Annual Meeting, “New Treatments in Multiple Sclerosis and Neuromyelitis Optica Spectrum Disorder”

2024 American Academy of Neurology, Annual Meeting 2024, “Advice and Guidance for New Clerkship Directors”

Invited presentations at local courses/grand rounds

Residency/fellowship presentations

2017 Stanford University, Department of Neurology, Neuroimmunology Divisional Conference “Neurological Consequences of Cobalt Toxicity”

2017 Stanford University, Department of Neurology, Neuroimmunology Divisional Conference “Neurobrucellosis”

2017 Stanford University, Department of Neurology, Neuroimmunology Divisional Conference “Primary Angiitis of the Central Nervous System”

2017 Stanford University, Division of Physical Medicine and Rehabilitation, Resident Lecture Series “Introduction to Multiple Sclerosis”

2018 Stanford University, Department of Neurology, Neuroimmunology Divisional Conference “Use of Low-Dose Naltrexone in Multiple Sclerosis”

2018 Stanford University, Department of Neurology, Neuroimmunology Divisional Conference “HTLV-1 Associated Myelitis”

2018 Stanford University, Department of Neurology, Neuroimmunology Divisional Conference “Updates in Multiple Sclerosis”

2018 Stanford University, Departments of Neurology, Neurosurgery, and Neuroscience Annual Neuroscience forum “Immunophenotypic Signature Revealed by Cytometry by Time of Flight (CyTOF) in Patients Treated with Dimethyl Fumarate”

Faculty presentations

2019 University of Florida, Department of Neurology, Neuroimmunology Divisional Conference. “Review of Clinical Trial Data for Cladribine, Eculizumab, and Siponimod”

2020 University of Colorado, Department of Neurology, Grand Rounds. “Big data, algorithms, and neurological disease”

2020 University of Colorado, Department of Neurology, Neurohospitalist Didactics. “Updates in Neuroimmunology”

2023 University of Colorado, School of Medicine. Academy of Medical Educators Annual Meeting. “Simulation of the Neuroradiology Reading Room”

2024 Scholarship in Education & Innovation Club, Academy of Medical Educators, University of Colorado School of Medicine. “Simulation, neuroanatomy, and post-clerkship learning”. October 3, 2024.

2024 Teaching Scholars Program, Academy of Medical Educations, University of Colorado School of Medicine. “Works in Progress for New Cohort”. October 8, 2024.

Invited presentations for patients and lay groups

7/21/2018 “Multiple Sclerosis Town Hall”. Presenter at MS Focus patient education series, a monthly dinner and lecture funded by the Multiple Sclerosis Foundation.

10/16/2018 “Oral Therapies in Multiple Sclerosis”. Presented with and supervised fellow Buse Sengul. Presented at MS Focus patient education series, funded by the Multiple Sclerosis Foundation.

11/12/2018 “Infusion Therapies in Multiple Sclerosis”. Presented at MS Focus patient education series, funded by the Multiple Sclerosis Foundation.

7/21/2019 “Pathways to a Cure”. Presented at a National Multiple Sclerosis Society patient outreach event.

Interviews and correspondence for non-peer reviewed media

1/5/2025 *Neurology Today*. Commentary on the tele-education in neurology for the article “Face to Face — A Neurologist’s Perspective on Teleeducation”, which was originally published on December 14, 2024, in the *New England Journal of Medicine*.

PUBLICATIONS/ BIBLIOGRAPHY

Peer-Reviewed Journal Articles

1. Berger, Z., Roder, H., Hanna, A., **Carlson, A. M.**, Rangachari, V., Yue, M., Wszolek, Z., Ashe, K., Knight, J., Dickson, D., Andorfer, C., Rosenberry, T. L., Lewis, J., Hutton, M., & Janus, C. (2007). Accumulation of pathological tau species and memory loss in a conditional model of tauopathy. *The Journal of Neuroscience*, 27(14), 3650–3662. <https://doi.org/10.1523/JNEUROSCI.0587-07.2007> PMID: 17409229
2. Dormann, D., Capell, A., **Carlson, A. M.**, Shankaran, S. S., Rodde, R., Neumann, M., Kremmer, E., Matsuwaki, T., Yamanouchi, K., Nishihara, M., & Haass, C. (2009). Proteolytic processing of TAR DNA-binding protein-43 by caspases produces C-terminal fragments with disease-defining properties independent of progranulin. *Journal of Neurochemistry*, 110(4), 1082–1094. <https://doi.org/10.1111/j.1471-4159.2009.06211.x> PMID: 19522733
3. Capell, A., Liebscher, S., Fellerer, K., Brouwers, N., Willem, M., Lammich, S., Gijssels, I., Bittner, T., **Carlson, A. M.**, Sasse, F., Kunze, B., Steinmetz, H., Jansen, R., Dormann, D., Sleegers, K., Cruts, M., Herms, J., Van Broeckhoven, C., & Haass, C. (2011). Rescue of progranulin deficiency associated with frontotemporal lobar degeneration by alkalizing reagents and inhibition of vacuolar ATPase. *The Journal of Neuroscience*, 31(5), 1885–1894. <https://doi.org/10.1523/jneurosci.5757-10.2011> PMID: 21289198
4. Rising, A. C., Xu, J., **Carlson, A.**, Napoli, V. V., Denovan-Wright, E. M., & Mandel, R. J. (2011). Longitudinal behavioral, cross-sectional transcriptional, and histopathological characterization of a knock-in mouse model of Huntington's disease with 140 CAG repeats. *Experimental Neurology*, 228(2), 173–182. <https://doi.org/10.1016/j.expneurol.2010.12.017> PMID: 21192926
5. **Carlson, A. M.**, Lindor, N. M., & Litzow, M. R. (2011). Therapy-related myelodysplasia in a patient with Rothmund–Thomson syndrome. *European Journal of Haematology*, 86(6), 536–540. <https://doi.org/10.1111/j.1600-0609.2011.01609.x> PMID: 21418107
6. **Carlson, A. M.**, Thomas, K. B., Kirmani, S., & Lindor, N. M. (2012). Chronic tibial nonunion in a Rothmund-Thomson syndrome patient. *American Journal of Medical Genetics Part A*, 158A(9), 2250–2253. <https://doi.org/10.1002/ajmg.a.35475> PMID: 22821900
7. **Carlson, A. M.**, Maurer, M. J., Goergen, K. M., Kalli, K. R., Erskine, C. L., Behrens, M. D., Knutson, K. L., & Block, M. S. (2013). Progranulin and serum leukocyte protease inhibitor as biomarkers in epithelial ovarian cancer. *Cancer Epidemiology, Biomarkers & Prevention*, 22(10), 1730–1735. <https://doi.org/10.1158/1055-9965.epi-12-1368> PMID: 23878295
8. **Carlson, A. M.**, McPhail, E. D., Rodriguez, V., Schroeder, G., & Wolanskyj, A. P. (2014). A prospective, randomized crossover study comparing direct inspection by light microscopy versus projected images for teaching of hematopathology to medical students. *Anatomical Sciences Education*, 7(2), 130–134. <https://doi.org/10.1002/ase.1374> PMID: 23716270
9. **Carlson, A. M.**, Young, J., & Avidan, A. (2016). Frightening spells at night. *Journal of Clinical Sleep Medicine*, 12(6), 925–927. <https://doi.org/10.5664/jcsm.5906> PMID: 27092704

10. Tomczak, A., Su, E., Tugizova, M., **Carlson, A. M.**, Kipp, L., Feng, H., & Han, M. (2020). A case of GFAP-astroglial autoimmunity presenting with reversible parkinsonism. *Multiple Sclerosis and Related Disorders*, 39, 101900. <https://doi.org/10.1016/j.msard.2019.101900> PMID: 31881522
11. Wong, J. K., Yu, J., Patterson, A., **Carlson, A. M.**, & Shukla, A. W. (2020). Clinical and imaging features of newly recognized Kelch-like protein 11 paraneoplastic syndrome. *Neurology*. <https://doi.org/10.1212/wnl.0000000000009895> PMID: 32561677
12. Case, R., Valentin, R., **Carlson, A.**, Alnauimat, H., & Patel, D. C. (2020). Extrapulmonary recurrence of sarcoidosis after lung transplantation presenting as neurosarcoidosis. *Neurology: Clinical Practice*, 10(5), 407–409. <https://doi.org/10.1212/cpj.0000000000000980> PMID: 34484961
13. Rempe, T., Sollero, C. E., Rodriguez, E., Viswanathan, V., **Carlson, A.**, Rees, J., Tuna, I., & Gyang, V. (2020). Corticosteroids lead to short-term improvement in cerebral amyloid angiopathy with inflammation. *Journal of Neuroimmunology*, 348, 577399. <https://doi.org/10.1016/j.jneuroim.2020.577377> PMID: 32919147
14. **Carlson, A. M.**, Huffnagel, I. C., Verrips, A., van der Knaap, M., Engelen, M., & Van Haren, K. (2020). Five men with arresting and relapsing cerebral adrenoleukodystrophy. *Journal of Neurology*, 267(12), 3655–3663. <https://doi.org/10.1007/s00415-020-10225-7> PMID: 32995952
15. Rempe, T., **Carlson, A.**, Miravalle, A., & Gyang, T. (2020). Anti-JCV antibody index does not change during ocrelizumab treatment. *Multiple Sclerosis Journal – Experimental, Translational and Clinical*, 6(3), 2055217320949213. <https://doi.org/10.1177/2055217320960510> PMID: 33029356
16. Sollero, C. E., Lin, H., Chuquilin, M., Wymer, J., & **Carlson, A. M.** (2020). Mitochondrial neurogastrointestinal encephalopathy syndrome – a rare, but treatable cause of adult-onset leukoencephalopathy. *Practical Neurology*, 20(6), 560–562.
17. Rempe, T., Tarhan, B., Rodriguez, E., Viswanathan, V. T., Gyang, T. V., **Carlson, A.**, Tuna, I. S., & Rees, J. (2020). Anti-MOG associated disorder – clinical and radiological characteristics compared to AQP4-IgG+ NMOSD - a single-center experience. *Multiple Sclerosis and Related Disorders*, 46, 102513. <https://doi.org/10.1016/j.msard.2020.102513> PMID: 33388560
18. **Carlson, A. M.**, Sollero, C. E., Nair, K. V., Sillau, S., Wu, Q., Gyang, T., Li, Z., & Armstrong, M. J. (2022). Prevalence of multiple sclerosis and treatment utilization in a large, highly diverse population. *Multiple Sclerosis and Related Disorders*, 61, 103319. <https://doi.org/10.1016/j.msard.2022.103784> PMID: 35405561
19. Money, K. M., Cronin, J., Guimaraes-Young, A., **Carlson, A.**, Lovell, M. A., Matthews, E., & Piquet, A. L. (2023). CADASIL progression after neurologic infectious insults: case report of a new pathogenic NOTCH3 mutation. *Neuroimmunology Reports*, 3, 100117. <https://doi.org/10.1016/j.nerep.2023.100186> PMID: N/A
20. Vervloet Sollero, C. E., Piquet, A. L., Robinson, C., Gyang, T. V., & **Carlson, A.** (2023). Anti-NMDA receptor encephalitis related to renal cell carcinoma: A case report. *The Neurohospitalist*, 13(3), 198–200. <https://doi.org/10.1177/19418744231216179> PMID: 38666271

21. Corigliano, M. R., **Carlson, A. M.**, Sillau, S. H., & Stabio, M. E. (2023). An innovative 3D-printed model of the cerebral arterial circle for dental gross anatomy. *Journal of Dental Education*. <https://doi.org/10.1002/jdd.13440> . PMID: 38129320
22. Jellins, T. S., Borko, T. L., Otero-Bell, R., Arnett, K., Saunders, S., Poisson, S. N., Orjuela, K., Salehi Omran, S., Jones, W. J., Leppert, M., Madera, A., **Carlson, A.**, Pastula, D., Sauer, B. M., & Piquet, A. L. (2024). Diversity, equity, and inclusion (DEI) in medical education: DEI at the bedside. *Journal of the Neurological Sciences*. <https://doi.org/10.1016/j.jns.2024.122946> PMID: 38493733
23. Swift, I., Rademakers, R., Finch, N., Baker, M., Ghidoni, R., Benussi, L., Binetti, G., Rossi, G., Synofzik, M., Wilke, C., Mengel, D., Graff, C., Takada, L. T., Sánchez-Valle, R., Antonell, A., Galimberti, D., Fenoglio, C., Serpente, M., Arcaro, M., Schreiber, S., Vielhaber, S., Arndt, P., Santana, I., Almeida, M. R., Moreno, F., Barandiaran, M., Gabilondo, A., Stubert, J., Gómez-Tortosa, E., Agüero, P., Sainz, M. J., Gohda, T., Murakoshi, M., Kamei, N., Kittel-Schneider, S., Reif, A., Weigl, J., Jian, J., Liu, C., Serrero, G., Greither, T., Theil, G., Lohmann, E., Gazzina, S., Bagnoli, S., Coppola, G., Bruni, A. C., Quante, A., Kiess, W., Hiemisch, A., Jurkutat, A., Block, M. S., **Carlson, A. M.**, Bråthen, G., Sando, S. B., Grøntvedt, R. G., Lauridsen, C., Heslegrave, A., Heller, C., Abel, E., Gómez-Núñez, A., Puey, R., Arighi, A., Rotondo, E., Jiskoot, L., Meeter, L. H. H., Durães, J., Lima, M., Tábuas-Pereira, M., Lemos, J., Boeve, B., Petersen, R. C., Dickson, D. W., Graff-Radford, N. R., LeBer, I., Sellami, L., Lamari, F., Clot, F., Borroni, B., Cantoni, V., Rivolta, J., Lleó, A., Fortea, J., Alcolea, D., Illán-Gala, I., Andres-Cerezo, L., Van Damme, P., Clarimon, J., Steinacker, P., Feneberg, E., Otto, M., van der Ende, E. L., van Swieten, J. C., Seelaar, H., Zetterberg, H., Sogorb-Esteve, A., & Rohrer, J. D. (2024). A systematic review of progranulin concentrations in biofluids in over 7000 people – assessing the pathogenicity of GRN mutations and other influencing factors. *Alzheimer's Research & Therapy*. DOI: [10.1186/s13195-024-01420-z](https://doi.org/10.1186/s13195-024-01420-z) . PMID: 38539243
24. Kwon, S., Sillau, S., Corboy, J., Nair, K. V., & **Carlson, A. M.** (2024). Shifting patterns of multiple sclerosis treatment in a highly prevalent United States population. *Annals of Clinical and Translational Neurology*. DOI: [10.1002/acn3.52069](https://doi.org/10.1002/acn3.52069) . PMID: 38654416
25. Crane, P. D., Sillau, S., Dreher, R., Fix, R., Winters, P., Van Coevering, R., Engebretson, E., Valdez, B., Nair, K. V., **Carlson, A. M.**, & Piquet, A. L. A population-based study of the epidemiology of Stiff Person Syndrome in a large Colorado-based health system. *Neurology*. DOI: [10.1212/WNL.0000000000210078](https://doi.org/10.1212/WNL.0000000000210078) . PMID: 39621949
26. **Carlson, A. M.**, Sollero, C. E., Wolf, A. B., Sillau, S., Schmitt, B. L., Money, K. M., Nair, K. V., Piquet, A. L., & Bennett, J. L. (accepted). The epidemiology and clinical presentation of seropositive neuromyelitis optica spectrum disorder in a US population. *Annals of Clinical and Translational Neurology*.

Non-Peer-Reviewed Journal Articles

1. Steinman L, **Carlson AM**. Monoclonal antibody treatments in multiple sclerosis. *BMC Practical Neurology*. 2018.

Abstracts

1. Rising A, **Carlson A**, Lewin A, Mandel R. Behavioral characterization of a knock-in mouse model of Huntington's disease. Presented at: Society for Neuroscience, 37th annual meeting. San Diego, California, November 3-7, 2007.

Aaron M. Carlson

2. Dormann D, Capell A, **Carlson A**, Shankaran S, Schmid B, Nishihara M, Neumann M, Haass C. Proteolytic Processing and Aggregation of TAR DNA Binding Protein-43 After Caspase Activation. Presented at: 9th International Conference on Alzheimer's Disease and Parkinson's Disease. Prague, Czech Republic, March 11-15, 2009.
3. **Carlson AM**, Schneider P, Hampel H, Fellerer K, Buerger K, Haass C, and Capell A. Progranulin as a Potential Biomarker for Alzheimer's Disease and Related Disorders. Presented at: 9th International Conference on Alzheimer's disease and Parkinson's disease. Prague, Czech Republic, March 11-15, 2009.
4. **Carlson AM**, Thomas K, Kirmani M, NM Lindor. Chronic Tibial Nonunion in a Rothmund Thomson Syndrome Patient. Presented at: The 12th International Congress on Human Genetics. Montreal, Canada, October 11-15, 2011.
5. **Carlson AM**, McPhail ED, Rodriguez V, Wolanskyj AP. Content retention of hematopathologic findings is similar after direct inspection by microscope versus projected images: a prospective, randomized crossover study of Mayo Clinic medical students. Presented at: Association for Medical Education in Europe. Lyon, France, August 25-29, 2012.
6. **Carlson AM**, Sicotte NL, Salamon N, Yoo B. The Imaging Differential Diagnosis of Demyelination. Presented at: The American Society of Neuroradiology Annual Meeting. Washington D.C., USA. May 23-26, 2016.
7. **Carlson AM**, Huffnagel IC, Engelen M, Van Haren K. Arresting and Relapsing Cerebral Adrenoleukodystrophy: A Treatable Mimic of Multiple Sclerosis. Presented at: America's Committee for Treatment and Research in Multiple Sclerosis (ACTRIMS). Orlando, Florida. February 23-25, 2017.
8. **Carlson AM**, Bozinov N, Kipp L, Dunn J, Lock C. Autoimmune Hepatitis During Treatment of Multiple Sclerosis with Alemtuzumab. Presented at: American Academy of Neurology Annual Meeting. Los Angeles, California. April 21, 2018.
9. Ajami B, **Carlson AM** (presenting author), Ho P, Nolan G, Steinman L. Immunophenotypic Signature Revealed by Cytometry by Time of Flight (CyTOF) in Patients Treated with Dimethyl Fumarate. Presented at: European Committee for Treatment and Research in Multiple Sclerosis (ECTRIMS) Annual Conference. Berlin, Germany. October 12-14, 2018.
10. Rammohan, KW, Li D, Halper J, Murphy SM, Patton L, Berger J, **Carlson AM**, Chinae A, Cohan S, Cross A, Dunn J, Fox EJ, Gupta A, Kamin S, Mao-Draayer Y, Mayer L, Repovic P, Ruiz JA, Rus H, Samudralwar R, Subei A, Thomas F. The North American Registry for Care and Research in Multiple Sclerosis. Presented at: Americas Committee for Treatment and Research in Multiple Sclerosis Annual Meeting. Dallas, Texas. February 28, 2019.
11. Sengul B, Gyang T, **Carlson A**. Chronic Lymphocytic Inflammation with Pontine Perivascular Enhancement not Responsive to Steroids—Management Decisions in a Situation of Diagnostic Uncertainty. Presented at: American Academy of Neurology Annual Meeting. Philadelphia, Pennsylvania. April 16, 2019.

12. Sollero CE, Robinson C, Gyang T, **Carlson A**. Anti-NMDA Receptor Encephalitis Related to Renal Cell Carcinoma: a Case Report (P12.005). Presented at: American Academy of Neurology Annual Meeting. 2020, online due to COVID-19 public health crisis.
13. Rempe T, **Carlson A**, Miravalle A, Gyang T. Ocrelizumab treatment is not associated with an increase in anti-JCV antibody index (P15.016). Presented at: American Academy of Neurology Annual Meeting. 2020, online due to COVID-19 public health crisis.
14. Bolling J, Sollero CE, Gyang T, **Carlson A**. From Therapy Enrollment to First Dose-a Quality Improvement Initiative for MS Care (P16.010). Presented at: American Academy of Neurology Annual Meeting. 2020, online due to COVID-19 public health crisis.
15. Bolling J, Vasquez M, Sollero CE, **Carlson A**, Gyang T. Real-world Experience with Ocrelizumab-A Safety Analysis (P2.009). Presented at: American Academy of Neurology Annual Meeting. 2020, online due to COVID-19 public health crisis.
16. **Carlson AM**, Sollero CE, Nair K, Sillau S, Wu Q, Gyang T, Li Z, Armstrong M. Prevalence of multiple sclerosis in the OneFlorida Data Trust. Presented at: MSVirtual2020. 2020.
17. Sollero, CE, Gyang T, Nair, KV, Sillau S, Armstrong MJ, **Carlson AM**. Prevalence of multiple sclerosis and treatment utilization in a large, highly diverse population. Presented at: Neurotherapeutics Symposium, University of Rochester Medical Center. 2022.
18. **Carlson AM**, Hawkins, T, Korb, P, Anderson A, Daniels H, Stickrath C, Zimmer S, Stabio M. Longitudinally integrated clerkships and interwoven learning experiences: adapting neuroscience education to evolving medical school curricula. Presented at: American Academy of Neurology Annual Meeting. Seattle, Washington. April 4, 2022.
19. Leech J, Cronin J, Stabio M, **Carlson AM**. Simulation of the reading room experience through an interactive neuroradiology and small group session for undergraduate medical students. Neurohospitalist Society, San Francisco, California. October 7, 2022.
20. Corigliano M, **Carlson AM**, Stabio ME. A 3D-printed model of the cerebral arterial circle increases confidence in clinical neuroanatomy. Presented at: American Association for Anatomy, Anatomy Connected Meeting. March 25-27, 2023.
21. Garza M, Matthews E, Sauer B, Engebretson E, Valdez B, Sillau S, **Carlson A**, Piquet A. A Retrospective Review on Encephalitis in the University of Colorado Health Care System and a Proposed Diagnostic Approach (P8-10.005). American Academy of Neurology Annual Meeting, April 25, 2023.
22. Saban R, Leech J, **Carlson A.**, Sauer B, Ragole T. An Atypical Presentation of Immune-mediated, Demyelinating Polyneuropathy with Multiple Antibodies to Nerve and Myelin Proteins Following SARS-CoV2 mRNA Vaccination (P10-5.009). American Academy of Neurology Annual Meeting, April 26, 2023.
23. Crandall R, Sauer B, Sillau S, **Carlson A**. Evolution of Key Resident Didactics Following COVID-19 Restrictions. Presented at: The Neurohospitalist Annual Meeting. October 13-14, 2023.

24. Sollero C, Bennett J, Nair KV, Schmitt B, Sillau S, Piquet A, **Carlson AM**. Epidemiology of seropositive neuromyelitis optica spectrum disorder in a large US population. Presented at: American Academy of Neurology Annual Meeting. 2024.
25. Crane PD, Sillau S, Carlson AM, Piquet A. A single-center case series of patients with Stiff-Person Syndrome. Presented at: American Academy of Neurology Annual Meeting. 2024.
26. Guistolisi S, Kelly S, Jenkins J, Ardakani R, Pastula D, **Carlson AM**. Diagnostic challenge: adrenoleukodystrophy masquerading as chronic immune demyelinating polyradiculoneuropathy. Presented at: American Academy of Neurology Annual Meeting. 2024.
27. Ardakani RV, Schmitt B, Carlson A, Wolf A, Tyler K, Pastula D, Piquet A. JC Virus Granule Cell Neuronopathy Mimicking Paraneoplastic Cerebellar Degeneration. Presented at: American Academy of Neurology Annual Meeting. 2024.
28. Kwon S, Sillau S, Valuck R, Anderson K, Nair KV, Anderson H, **Carlson AM**. Annual incidence of multiple sclerosis in a large health care system in the US from 2014-2020. Presented at: American Academy of Neurology Annual Meeting. 2024.
29. **Carlson AM**, Corigliano M, Sillau S, Stickrath C, Cronin J, Leech J, Stabio M. Simulation of the neuroradiology reading room: essential undergraduate medical education at scale. Presented at: Western Group for Educational Affairs Annual Meeting. 2024