

# Stanford

---



## Laura Prolo

Assistant Professor of Neurosurgery

### CLINICAL OFFICES

- **Pediatric Neurosurgery**

730 Welch Rd

Palo Alto, CA 94304

Tel (650) 723-0991      Fax (650) 725-5086

- **Stanford Children's Health Specialty Services Sunnyvale**

1195 W Fremont Ave

Sunnyvale, CA 94087

Tel (408) 426-5590      Fax (408) 426-5590

### Bio

---

### CLINICAL FOCUS

- Pediatric Neurosurgery
- Brain and spinal cord tumors
- Craniosynostosis
- Congenital spinal conditions
- Chiari malformation
- Moya-moya disease
- Spasticity
- Myelomeningocele
- Neuro-endoscopy

### ACADEMIC APPOINTMENTS

- Assistant Professor - University Medical Line, Neurosurgery
- Member, Bio-X
- Member, Maternal & Child Health Research Institute (MCHRI)
- Member, Wu Tsai Neurosciences Institute

### PROFESSIONAL EDUCATION

- Medical Education: Stanford University School of Medicine (2012) CA
- PhD, Stanford University School of Medicine, Neuroscience (2012)

- Fellowship: Seattle Children's Hospital Neurosurgery Fellowship (2020) WA
- Residency: Stanford University Neurosurgery Residency (2019) CA

## LINKS

- Prolo Lab: <https://med.stanford.edu/prolo-lab.html>

## Teaching

---

### STANFORD ADVISEES

#### Med Scholar Project Advisor

Cesar Garcia

## Publications

---

### PUBLICATIONS

- **Fluidic Considerations of Measuring Intracranial Pressure Using an Open External Ventricular Drain** *CUREUS*  
Beidler, P. G., Novokhodko, A., Prolo, L. M., Browd, S., Lutz, B. R.  
2021; 13 (5)
- **Fluidic Considerations of Measuring Intracranial Pressure Using an Open External Ventricular Drain.** *Cureus*  
Beidler, P. G., Novokhodko, A., Prolo, L. M., Browd, S., Lutz, B. R.  
2021; 13 (5): e15324
- **Resection of hip heterotrophic ossification leads to resolution of autonomic nervous system dysfunction in a patient with spinal Charcot arthropathy: a case report.** *Spinal cord series and cases*  
Fatemi, P., Prolo, L. M., Giori, N. J., Tharin, S.  
2020; 6 (1): 41
- **Evaluating Shunt Survival Following Ventriculoperitoneal Shunting with and without Stereotactic Navigation in Previously Shunt-Naïve Patients.** *World neurosurgery*  
Jin, M. C., Wu, A. n., Azad, T. D., Feng, A. n., Prolo, L. M., Veeravagu, A. n., Grant, G. A., Ratliff, J. n., Li, G. n.  
2020
- **Recurrence of cavernous malformations after surgery in childhood.** *Journal of neurosurgery. Pediatrics*  
Prolo, L. M., Jin, M. C., Loven, T. n., Vogel, H. n., Edwards, M. S., Steinberg, G. K., Grant, G. A.  
2020: 1–10
- **Patterns of Care and Age-Specific Impact of Extent of Resection and Adjuvant Radiotherapy in Pediatric Pineoblastoma.** *Neurosurgery*  
Jin, M. C., Prolo, L. M., Wu, A. n., Azad, T. D., Shi, S. n., Rodrigues, A. J., Soltys, S. G., Pollom, E. L., Li, G. n., Hiniker, S. M., Grant, G. A.  
2020
- **Targeted genomic CRISPR-Cas9 screen identifies MAP4K4 as essential for glioblastoma invasion.** *Scientific reports*  
Prolo, L. M., Li, A. n., Owen, S. F., Parker, J. J., Foshay, K. n., Nitta, R. T., Morgens, D. W., Bolin, S. n., Wilson, C. M., Vega L, J. C., Luo, E. J., Nwagbo, G. n., Waziri, et al  
2019; 9 (1): 14020
- **Deep Brain Stimulation for Pediatric Neuropsychiatric Disorders** *NEUROTECHNOLOGY AND BRAIN STIMULATION IN PEDIATRIC PSYCHIATRIC AND NEURODEVELOPMENTAL DISORDERS*  
Quon, J. L., Kim, L. H., Quon, C. A., Prolo, L. M., Grant, G. A., Halpern, C. H., Oberman, L. M., Enticott, P. G.  
2019: 237–52
- **Uninstrumented Posterior Lumbar Interbody Fusion: Have Technological Advances in Stabilizing the Lumbar Spine Truly Improved Outcomes?** *WORLD NEUROSURGERY*  
Prolo, L. M., Oklund, S. A., Zawadzki, N., Desai, M., Prolo, D. J.  
2018; 115: 490–502

- **Uninstrumented Posterior Lumbar Interbody Fusion: Have Technological Advances in Stabilizing the Lumbar Spine Truly Improved Outcomes?** *World neurosurgery*  
Prolo, L. M., Oklund, S. A., Zawadzki, N., Desai, M., Prolo, D. J.  
2018
- **Occipital Dermal Sinus Tract** *JOURNAL OF PEDIATRICS*  
Prolo, L. M., Grant, G. A.  
2018; 193: 276
- **Anterolateral approach to the upper cervical spine: Case report and operative technique** *HEAD AND NECK-JOURNAL FOR THE SCIENCES AND SPECIALTIES OF THE HEAD AND NECK*  
Song, Y., Tharin, S., Divi, V., Prolo, L. M., Sirjani, D. B.  
2015; 37 (9): E115-E119
- **Anterolateral approach to the upper cervical spine: Case report and operative technique.** *Head & neck*  
Song, Y., Tharin, S., Divi, V., Prolo, L. M., Sirjani, D. B.  
2015; 37 (9): E115-9
- **Vesicular uptake and exocytosis of L-aspartate is independent of sialin** *FASEB JOURNAL*  
Morland, C., Nordengen, K., Larsson, M., Prolo, L. M., Farzampour, Z., Reimer, R. J., Gundersen, V.  
2013; 27 (3): 1264-1274
- **The Lysosomal Sialic Acid Transporter Sialin Is Required for Normal CNS Myelination** *JOURNAL OF NEUROSCIENCE*  
Prolo, L. M., Vogel, H., Reimer, R. J.  
2009; 29 (49): 15355-15365
- **Physiology - Keeping it regular with protons** *NATURE*  
Prolo, L. M., Goodman, M. B.  
2008; 452 (7183): 35-36
- **Circadian rhythm generation and entrainment in astrocytes** *JOURNAL OF NEUROSCIENCE*  
Prolo, L. M., Takahashi, J. S., Herzog, E. D.  
2005; 25 (2): 404-408