

## Ana Beatriz Nasser

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### EDUCATION

**University of Texas at El Paso (UTEP), El Paso, USA, PhD Student in Interdisciplinary Health Sciences (2025–present)**

**University of Groningen, Groningen, Netherlands Master of Science in Human Movement Sciences (2022–2024)**

- Master's Thesis: *Exercise Capacity during Oncology Rehabilitation: Determinants of VO<sub>2</sub>peak Improvement in Cancer Survivors*
- High Tech Systems & Materials Master Honors Programme
- Philips Drachten Summer School: Developed health-technology product proposals with industry partners
- MasterWork: Designed an affordable, adjustable prosthesis for children in low-resource settings

**Federal University of São Carlos (UFSCar), São Paulo, Brazil**

- Post-Graduate Specialization in Clinical Exercise Physiology (2022)
- Bachelor's in Physical Therapy (2015–2021) ◦ Bachelor Thesis: *Influence of Walking Level on Intracranial Pressure Morphology in Chronic Post-Stroke Individuals*

**Polytechnic Institute of Leiria, Portugal Academic Exchange Program (2017–2018)**

### PROFESSIONAL EXPERIENCE

**University of Texas at El Paso (UTEP), Dept. of Kinesiology — Teaching Assistant (2025–present)**

- Conduct two undergraduate biomechanics lab sessions and practical sessions for Introduction to Athletic Training
- Guest lectured “Linear Kinematics” (Biomechanics) and “Shoulder Pathologies” (Athletic Training)
- Instructed three biomechanics lab sections in Fall 2025, facilitating hands-on learning
- Assess and grade lab activities; support student understanding of experimental methods and data interpretation
- Provide academic support through office hours and email communication
- Student feedback (Fall 2025): *“Great lab TA... explained everything in detail and helped break down word problems.” “Very kind and cool TA... went into detail on every topic.”*

**University Medical Center Groningen (UMCG), Dept. of Rehabilitation Medicine — Student Researcher (2023/24) •**

- Collected data from 631 medical records for Master's thesis
- Analyzed VO<sub>2</sub>peak changes using R Studio, identifying ~10% average improvement post-rehabilitation
- Built predictive regression models identifying age, cancer type, and BMI as key determinants
- Conducted a systematic review of 81 articles on exercise, cytokines, and myokines in cancer patients

**Child Development Analysis Laboratory (LADI), UFSCar — Research Assistant (2021/22)**

- Recruited 21 physical therapy interns for an E-Health implementation study
- Contributed to manuscript published in *The Clinical Teacher*
- Supported research on digital health tools in pediatric rehabilitation

**Telerehabilitation Extension Project, UFSCar — Physical Therapy Intern (2020)**

- Delivered telehealth rehabilitation for neuropediatric patients and one COPD patient during COVID-19 • Monitored progress and adapted interventions remotely

#### **Neurological Physiotherapy Research Laboratory, UFSCar — Research Assistant (2019/21)**

- Supported data collection using Brain4Care's non-invasive intracranial pressure tool
- Collected and analyzed gait data in post-stroke individuals

#### **Education & Work Project (Brazilian Ministry of Public Health) — Health Care Intern (2019/21)**

- Managed and screened medical records within Brazil's public health system
- Designed PT and OT plans for patients recovering from drug and alcohol addiction
- Delivered yoga, strength, and stretching classes to prevent physical impairments

#### **Department of Physical Therapy, UFSCar — Kinesiology Teaching Assistant (2018)**

- Assisted in practical classes and provided extra support for anatomy and physical testing

#### **Department of Morphology Pathology, UFSCar — Anatomy Teaching Assistant (2016)**

- Managed anatomical specimens and assisted with practical exams
- Supported first-year students in anatomy and palpatory skills

#### **Shoulder Complex Research Laboratory, UFSCar — Research Assistant (2015/18)**

- Assisted with data collection on strength, flexibility, and biomechanics in tennis players
- Contributed to manuscript published in *Journal of Sport Rehabilitation*

### **PUBLICATIONS**

- van Kammen, K., Verkuijlen, L. A. J., Nasser, A. B., Dekker, R., Krops, L. A., & Seves, B. L. (2026). Modifiable and NonModifiable Predictors of Exercise Capacity in Stroke Survivors: A Systematic Review. *Healthcare*, 14(3), 382. <https://doi.org/10.3390/healthcare14030382>
- Sudati, I. P., Monteiro, R. F. L., Nasser, A. B., Rocha, N. A. C. F., & De Campos, A. C. (2023). Telehealth in paediatric physical therapy education: Strategies and perceptions of interns and caregivers of children with disabilities in Brazil. *The Clinical Teacher*, 1, 1-9. [10.1111/tct.13653](https://doi.org/10.1111/tct.13653)
- Barbosa, G. M., Ribeiro, L. P., Nasser, A. B., Oliver, G. D., & Camargo, P. R. (2021). Flexibility, position, and strength of the shoulder complex in pediatric and adult amateur tennis athletes. *Journal of Sport Rehabilitation*. Advance online publication. <https://doi.org/10.1123/jsr.2020-0331>
- Moura, A. B., Nasser, A. B., Pereira, C. L. O., Bruno, C. H., Cugler, P. S., & Bertossi, T. S. (2020). *Quick guide to COVID19 and psychoactive substances*. [Guide].

### **ORAL PRESENTATION**

- Nasser, A.B., Cho, J., Eggleston, J.D., Genrich, C., Nava, D.S., Jang, J., Differentiating Chronic Ankle Instability from Uninjured Controls Using Markerless Smartphone Motion Capture Human Factor Ergonomics Society HFES 2026 Western Regional Conference.
- Bonilla, V.M., Nasser A.B., Jang, J., Cho, J. · Estimating Ground Reaction Forces from Marker-Based 3D Gait Trajectories Using Machine Learning. Human Factor Ergonomics Society HFES 2026 Western Regional Conference
- Nasser, A. B., & Fluit, R. (2024, June). Affordable and adjustable prosthesis mainly focused on children in non-developed countries. 31st International Student Congress of Bio(Medical) Sciences (ISCOMS).
- Sudati, I. P., Monteiro, R. F. L., Nasser, A. B., Rocha, N. A. C. F., & De Campos, A. C. (2023, October). Implementation of telehealth in pediatrics physical therapy education during COVID-19 pandemic: The perception of internship students. AACPD 77th Annual Meeting, Chicago, IL.
- Nasser, A. B., Sudati, I. P., Monteiro, R. F. L., Rocha, N. A. C. F., & De Campos, A. C. (2022, May). E-Health in pediatric neurorehabilitation: Implementation, adherence and caregivers' perceptions. 12th World Congress for Neurorehabilitation.
- Barbosa, G. M., Nasser, A. B., Ribeiro, L. P., Rodrigues, L. P., Longo, E., & Camargo, P. R. (2019, November). Evaluation of range of movement, flexibility, muscle strength, scapular and clavicular position in adult recreational tennis players. ABRAFITO 2019 Brazilian and International Congress.

- Calixtre, L. B., Andrade, L., Carrer, H. C. N., Riani, L., Moura, S. C. G., Carreira, R. F., Sousa, A. J. S., Silva, C. R. F., Tsen, C., Sudati, I. P., Rohr, L. A., Machado, L. R., Carvalho, M. M., Santos, P. R., Nasser, A. B., da Silva, B. R., Breda, C., Sanches, G. L. A., Antonio, G. L. N., Pereira, I. C. S., de Oliveira, L. V. C., Oliveira, L. B., Zampieri, M. L., & Arcuri, J. F. (2020, November). Physiotherapy services through telehealth for patients from the school-health unit of the Federal University of Sao Carlos. I Symposium on Telerehabilitation.

## AWARDS

- 2nd Best Poster — Master Graduation Symposium (2024)
- Scholarship: Educational Program for Health Work (2018–2020)

## GRANTS

- IHS PhD Program Research Fund (2025)
- Dodson Research Grant Award (2025)

## VOLUNTEER EXPERIENCE

- Zpannend Zernike Science Festival, Netherlands (2023)
- Integrative Health Practices for the Academic Community, Brazil (2018–2019)
- Mission to Support Pilgrims of Fátima, Portugal (2017)

## INTERNATIONAL CONFERENCE PARTICIPATION

- ISCOMS 2024 — Groningen, Netherlands
- World Congress for Neurorehabilitation 2022 — Vienna, Austria