

# Curriculum Vitae

**Dr. Ovande Furtado, Jr., Ph.D.**

**Associate Professor** | Department of Kinesiology | Cal State Northridge

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## Education

**Ph.D. in Motor Behavior** (2009) University of Pittsburgh, PA University of Pittsburgh, PA  
Dissertation: “Development and initial validation of the Furtado-Gallagher Computerized Observational Movement Pattern Assessment System - FG-COMPASS” Advisor: Dr. Jere D. Gallagher

**M.S. in Motor Behavior** (2004)  
University of Pittsburgh, PA

**B.A. in Physical Education K-12** (1998)  
Federal University of Paraná, Brazil

## Academic Positions

**Associate Professor** (2013–Present)  
Cal State Northridge, Northridge, CA  
Teaches motor behavior and statistics courses.

**Associate Professor** (2007–2013)  
Eastern Illinois University, Charleston, IL  
Taught motor behavior and statistics courses.

**Physical Educator Teacher K-12** (2006–2007)  
Falk Lab School, Pittsburgh, PA  
Taught motor skill development for children K-12.

**Kinder Kinetics Movement Program Co-Director** (2003–2007)  
University of Pittsburgh, Pittsburgh, PA

## **Thesis Advising Committees**

**Brittney Golnick** (2025) *Pictorial Assessment of Fundamental Movement Skills: Expert Agreement and Rater Reliability in Children's Striking and Hopping*. Thesis Committee, California State University, Northridge. Role: Chair.

**Jongmin Lee** (2024) *Comparison of Cortical Hemodynamic Responses to Walking on Various Surfaces in People Post-Stroke*. Thesis Committee, California State University, Northridge. Role: Member | [ScholarWorks](#).

**Junghoon Park** (2023) *Effect of Service-Learning Programs on Kinesiology Students' Attitudes toward People with Disabilities*. Thesis Committee, California State University, Northridge. Role: Member | [ScholarWorks](#).

**Axel Hezekiah** (2022) *Children's screen time during a pandemic: a systematic review*. Thesis Committee, California State University, Northridge. Role: Chair | [ScholarWorks](#).

**Stephan Acuna** (2021-01-06) *Analysis of prefrontal cortex responses to chopstick usage in young adults*. Thesis Committee, California State University, Northridge. Role: Member | [ScholarWorks](#).

**Travis Watkins** (2021) *Virtual reality, video games, and Parkinson's disease: A systematic review on a new frontier of therapy*. Thesis Committee, California State University, Northridge. Role: Member | [ScholarWorks](#).

**Kristina Burch** (2021) *Is backward walking good for us?*. Thesis Committee, California State University, Northridge. Role: Member | [ScholarWorks](#).

**Jacqueline Truong** (2021) *Implementation of multimedia learning strategies in adapted aquatic therapeutic exercise*. Thesis Committee, California State University, Northridge. Role: Member | [ScholarWorks](#).

**Kara Fielding** (2021) *Effects of physical activity for the communication skills of children with autism*. Thesis Committee, California State University, Northridge. Role: Chair | [ScholarWorks](#).

**Michael Ryan Francisco** (2021) *Analysis of brain activity during aquatic walking in people post stroke*. Thesis Committee, California State University, Northridge. Role: Member | [ScholarWorks](#).

**John Ghattas** (2020) *Validity of inertial measurement units for tracking human motion: a systematic review*. Thesis Committee, California State University, Northridge. Role: Validity of inertial measurement units for tracking human motion | [ScholarWorks](#).

**Alexander Alas** (2020) *Self-regulated skill strategies (e.g. cognition, metacognition, study skills) and physical activity interventions to improve student learning and academic performance in introductory exercise physiology classes*. Thesis Committee, California State University, Northridge. Role: Member | [ScholarWorks](#).

**Robert Talamantez** (2020) *Acute effects of different number of sets on peak force and physical performance after a RT session in recreational-trained subjects*. Thesis Committee, California State University, Northridge. Role: Member | [ScholarWorks](#).

**Pedro Quevedo** (2019) *Pilot Study: Postactivation potentiation effects of unilateral vs. bilateral back squats on subsequent 20-m sprint bouts*. Thesis Committee, California State University, Northridge. Role: Member | [ScholarWorks](#).

**Adriana Conrad-Forrest** (2019) *Kinematic analysis of single-leg hopping in adults with and without Autism Spectrum Disorder*. Thesis Committee, California State University, Northridge. Role: Member | [ScholarWorks](#).

**Eunbi Lee** (2019) *Immediate effects of backward treadmill walking on gait and balance in people post-stroke*. Thesis Committee, California State University, Northridge. Role: Member | [ScholarWorks](#).

**Daniel Azurdia** (2019) *Effects of using virtual reality during exercise on perceptions of pain and fatigue in individuals with spinal cord injury*. Thesis Committee, California State University, Northridge. Role: Member | [ScholarWorks](#).

**Justin Shamunee** (2019) *Comparison of brain hemodynamic responses to forward versus backward walking among people post-stroke*. Thesis Committee, California State University, Northridge. Role: Member | [ScholarWorks](#).

**Kyle Geary** (2018) *Differences in postural sway between college students with and without Autism Spectrum Disorder (ASD)*. Thesis Committee, California State University, Northridge. Role: Member | [ScholarWorks](#).

**Takuto Fujii** (2018) *Analysis of brain activity during dual task walking in individuals with parkinson's disease*. Thesis Committee, California State University, Northridge. Role: Member | [ScholarWorks](#).

**Hyosok Lim** (2017) *Influence of water depths on energy expenditure during aquatic walking in people post-stroke*. Thesis Committee, California State University, Northridge. Role: Member | [ScholarWorks](#).

**Nnamdi Mbanugo** (2017) *Comparing the effects of rhythmic auditory stimulation and visual feedback on hemiparetic gait in chronic stroke*. Thesis Committee, California State University, Northridge. Role: Member | [ScholarWorks](#).

**Alexis Knudtson** (2016) *Comparison of balance between young adults with and without hearing impairment*. Thesis Committee, California State University, Northridge. Role: Member | [ScholarWorks](#).

**Mariah Bolin** (2013) *Relationship Between Fundamental Movement Skills and Body Mass Index in Rural Elementary Age Children.* , Eastern Illinois University. Role: Chair | [The Keep](#).

**Thomas Beals** (2010) *The Relative Age Effect In Junior College Baseball.* , Eastern Illinois University. Role: Chair | [The Keep](#).

## Research Interests

- Validation of observational models in psychomotor assessment instruments
- The relationship between motor skill competence, perceived motor competence, physical activity levels, and body composition
- The application of artificial intelligence to enhance movement assessment, particularly in the automated recognition and evaluation of fundamental movement skills

## Research Projects

### 1. Development and psychometric evaluation of the KinderKinetics Assessment Tool

This project aims to collect validity and reliability evidence for the KinderKinetics Assessment Tool (KKAT). KKAT is an AI-based instrument designed to assess the motor skills of children. It employs computer vision and machine learning techniques to analyze children's movements during various motor tasks, providing objective and accurate assessments of their motor skill proficiency.

### 2. Development and psychometric evaluation of the PictoMotion assessment tool

This project aims to collect validity and reliability evidence for the PictoMotion, an instrument designed to assess the qualitative aspects of fundamental motor skills in children. PictoMotion uses pictorial representations to facilitate the observation and evaluation of children's movement patterns during various motor tasks.

### 3. Transcultural validation of the Furtado-Gallagher Children Observational Movement Pattern Assessment System (FG-COMPASS)

This project aims to collect validity and reliability evidence for the Portuguese version of the FG-COMPASS, which involves adapting the Furtado-Gallagher Children Observational Movement Pattern Assessment System (FG-COMPASS) to Portuguese-speaking populations, ensuring that the instrument is culturally relevant and psychometrically sound for use in these contexts.

### 4. Development and psychometric evaluation of the FG-COMPASS

The aim of this project is to collect validity and reliability evidence for the Children Observational Movement Pattern Assessment System (FG-COMPASS).

## 5. Factors associated with the development of basic motor skills and physical fitness in elementary school students

This project aims to identify prevalence of motor skill deficits and to verify the nature of the associations between the proficiency of basic motor skills with sociodemographic, anthropometric variables, perception of competence, physical fitness and school performance among elementary school students from the municipal public schools in the city of Marechal Cândido Rondon-PR (Brazil).

## Publications

### Peer-Reviewed Articles

Mazzardo, Oldemar and Weis, Bárbara Maria and Sampaio, Adelar Aparecido and Lima, Dartel Ferrari de and Souza, Dayane Cristina de and **Furtado, Jr., O.** (2024). Associations Between Fundamental Motor Skill Domains and Physical Fitness Components in 5-11-Year-Old Children. *Perceptual and Motor Skills*. <https://doi.org/10.1177/00315125241284785>

Perez, Lino and **Furtado, Jr., O.** (2024). Investigating Expert-Rater Agreement and Inter/Intra-Rater Reliability of Two Fundamental Movement Skills for the Locomotor Subscale of the FG-COMPASS. *Perceptual and Motor Skills*. <https://doi.org/10.1177/00315125241272720>

Bolin, Mariah and **Furtado, Jr., O.** (2023). Examining the relationship between bmi, sex, and fundamental movement skill performance in low-income rural children. *Journal of Kinesiology & Wellness*, 12(1), 30–37. <https://doi.org/10.56980/jkw.v12i1.138>

Azurdia, Daniel and Acuña, Stephan Manuel and Narasaki-Jara, Mai and **Furtado, Jr., O.** and Jung, Taeyou (2022). Effects of virtual reality-based aerobic exercise on perceptions of pain and fatigue in individuals with spinal cord injury. *Games for Health Journal*, 11(4), 236–241. <https://doi.org/10.1089/g4h.2021.0151>

Mazzardo, Oldemar and Fontana, Fábio E. and **Furtado, Jr., O.** and Gallagher, J. D. (2018). The relationship of movement skills with habitual and organized physical activity in seven and eight-year-old children. *Pensar a Prática*, 21(1), 135–146. <https://doi.org/10.5216/rpp.v21i1.42360>

**Furtado, Jr., O.** and Gallagher, J. D. (2018). Expert-rater agreement and inter/intrarater reliability for the Furtado–Gallagher Computerized Observational Movement Pattern Assessment System. *Perceptual and Motor Skills*, 125(3), 423–437. <https://doi.org/10.1177/0031512518769205>

Beals, Thomas and **Furtado, Jr., O.** and Fontana, Fabio E. (2018). Relative age effect and academic timing in american junior college baseball. *Perceptual and Motor Skills*, 125(1), 147–161. <https://doi.org/10.1177/0031512517724260>

Fontana, Fabio E. and **Furtado, Jr., O.** and Mazzardo, Oldemar and Hong, Deockki and Campos, Wagner de (2017). Anti-fat bias by professors teaching physical education majors. *European Physical Education Review*, 23(1), 127–138. <https://doi.org/10.1177/1356336X16643304>

Fontana, Fabio E and **Furtado, Jr., O.** and Marston, Ripley and Mazzardo, Oldemar and Gallagher, J. D (2013). Anti-fat bias among physical education teachers and majors. *The Physical Educator*, 70(1), 15–31.

**Furtado, Jr., O.** and Gallagher, J. D. (2012). The reliability of classification decisions for the Furtado-Gallagher Computerized Observational Movement Pattern Assessment System - FG-COMPASS. *Research Quarterly for Exercise and Sport*, 83(3), 383–390. <https://doi.org/10.1080/02701367.2012.10599872>

Fontana, Fabio E. and Mazzardo, Oldemar and **Furtado, Jr., O.** and Gallagher, J. D (2009). Whole and part practice: a meta-analysis. *Perceptual and Motor Skills*, 109(2), 517–530. <https://doi.org/10.2466/pms.109.2.517-530>

Campos, Wagner and Fontana, Fabio E. and **Furtado, Jr., O.** (1997). The influence of gender and social economic status on the performance of fundamental movement skills. *Revista Paranaense de Educacao Fisica (UFPR)*, 8(1), 21–28.

### **Working Papers & Under Review**

Mazzardo, O and Furtado, Jr, O. Transcultural validity, psychometric evaluation, and construction of reference tables for FG-COMPASS. *Manuscript in preparation*.

### **Conference Presentations**

Knudtson, Alexis and Todd, Teri and Jung, Taeyou and Furtado, Jr., O. and Wagatsuma, Mayumi and Kim, Yumi (2016). Comparison of balance between young adults with and without hearing impairment. *Poster*, Boston, MA.

Dobbs, Ian and Kohli, Devyani and Furtado, Jr., O. (2015). A new pictorial instrument for assessing fundamental movement skill development: A pilot study. *Oral Presentation*, Reno, NV.

Furtado, Jr., O. and Jere D Gallagher (2010). Development and initial validation of the Furtado-Gallagher Computerized Observational Movement Pattern Assessment System. *Poster*, Tucson, AZ.

Bolin, Mariah and Furtado, Jr., O. (2014). The relationship between BMI and FMS performance in rural children. *Poster*, St. Louis, MO.

- Woolever, M. and Furtado, Jr, Ovande (2015). Comparing results from the Test of Gross Motor Development-2 (TGMD-2) to the results of the Furtado-Gallagher Computerized Observational Movement Pattern Assessment System (FG-COMPASS). *Oral Presentation*, Northridge, CA.
- Furtado, Jr., O. and Mazzardo, O. and Priscila Iumi and Wagner Campos and Jere D. Gallagher (2017). English to Portuguese reverse translation and initial evidence of expert-rater agreement of the Furtado-Gallagher Computerized Observational Movement Pattern Assessment System (FG-COMPASS). *Poster*, San Diego, CA.
- Lino Perez and Furtado Jr, Ovande (2017). Investigating expert vs rater consensus agreement, inter and intra-rater reliability of two fundamental movement skills for the locomotor subscale of the FG-COMPASS. *Poster*, San Diego, CA.
- Takato Sacurai and Lawrence Ho and Thomas Cunningham and Furtado, Jr., O. (2015). Collecting inter and intra-rater reliability for the Furtado-Gallagher Computerized Observational Movement Pattern Assessment System. *Oral Presentation*, Reno, NV.
- Piroska Boros and Fabio E. Fontana and Furtado, Jr., O. (2014). Perception of obese individuals by professors teaching PETE majors. *Poster* presented at tex.ids= borosPerceptionObeseIndividuals2014, Minneapolis, MN.
- Fabio E. Fontana and Furtado, Jr., O. and Ripley Marston and T Leech and Mazzardo, O. (2012). Anti-fat bias among physical education teachers and majors. *Poster*, Reston, VA.
- Mazzardo, O. and Furtado, Jr., O. and Adelar A Sampaio and Chapla, A. L. and Luiz Szczuk and Bryan S Jacob and Sabrina R Gomes (2017). The association of health risk behavior, anxiety, and depression among middle and high school students in the south of Brazil. *Poster*, San Diego, CA.
- Furtado, Jr., O. and Jere D Gallagher and Hasan Mavi (2013). Reliability of classification decisions for the FG-COMPASS: A follow-up. *Poster*, Charlotte, NC.
- Chapla, A. L. and Mazzardo, O. and Furtado, Jr., O. (2017). Validação transcultural e psicométrica de instrumento de avaliação de habilidades motoras básicas para crianças de ensino fundamental. *Oral Presentation*, Cascavel, PR - Brazil.
- Mackinsey Woolever and Furtado, Jr., O. (2016). Collecting concurrent validity, reliability of classification decisions, inter and intra-rater reliability evidence for the Furtado-Gallagher Computerized Observational Movement Pattern Assessment System. *Poster*, Montreal, Quebec, CA.
- Thomas C. Beals and Furtado, Jr., O. and Fabio E. Fontana (2012). The relative age effect and academic timing in college baseball. *Presentation*, Reston, VA.
- Furtado, Ovande (2015). Conducting real-time fundamental movement skill assessment in physical education. *Oral Presentation*, Seattle, WA.

## **Research Grants**

**User's Manual Development for the Furtado-Gallagher Child Observational Movement Pattern Assessment System (FG-COMPASS) (2024)**

Sabbatical, Cal State Northridge

CSUN Provost

**Collecting classification-decision reliability for the Pictorial Scale of Fundamental Movement Skills (PSFMS) (2017)**

Cal State Northridge | Amount: not funded (\$10,000)

2017-2018 CSUN Competition for Research, Scholarship and Creative Activity Awards

**Collecting classification-decision reliability for the Pictorial Scale of Fundamental Movement Skills (PSFMS) (2016)**

Cal State Northridge | Amount: not funded (\$10,000)

2017-2018 CSUN Competition for Research, Scholarship and Creative Activity Awards

**Further reliability evidence and mobile app development for the FG-COMPASS (2015)**

Cal State Northridge | Amount: \$10,000

2015-2016 CSUN Competition for Research, Scholarship and Creative Activity Awards

**Development of the Pictorial Scale of Fundamental Movement Skill: A pilot study (2014-2017)**

Cal State Northridge | Amount: \$5,000

2014-2015 CSUN Competition for Research, Scholarship and Creative Activity Awards

**English to Portuguese reverse translation and psychometric evaluation of the FG-COMPASS (2014)**

Cal State Northridge | Amount: \$5,000

## **Teaching-related Grants**

**2016 Course re-design. eLearning Grant (2016)**

Cal State Northridge | Amount: \$5,000

CSUN Faculty Technology Center

**2015 Course re-design. eLearning Grant (2015)**

Cal State Northridge | Amount: \$5,000

CSUN Faculty Technology Center



## **Teaching Experience**

### **Cal State Northridge**

**KIN 479 Motor Control** (2024–present)

Undergraduate Program

**KIN 377 Motor Learning** (2013–present)

Undergraduate Program

**KIN 477 Motor Development** (2013–2024)

Undergraduate Program

**KIN Quantitative Analysis of Research in Kinesiology** (2013–2024)

Graduate Program

**KIN 602 Seminar in Current Issues in Kinesiology** (2018–2021)

Graduate Program

### **Eastern Illinois University**

**KSS 5001 Statistical Analysis in Kinesiology & Sports Studies** (2009–2013)

Graduate Program

**KSS 4880 Theory of Motor Behavior** (2009–2013)

Graduate Program

**KSS 4470 Measurement and Evaluation in Physical Education** (2009–2013)

Undergraduate Program

**KSS 3900 Computers Applied to Physical Education** (2009–2013)

Undergraduate Program

**KSS 2390 Theory and Technique of Soccer** (2009–2013)

Undergraduate Program

## **Service**

### **Service to the Department**

#### **Undergraduate Advising**

**Kinesiology Academic Advisor (Applied Fit / Exercise Science)** (2013–present)

Cal State Northridge

Responsible for advising over 200 students every semester.

**Mandatory Advisement Group Sessions (MAG) Planner (2017)**

Cal State Northridge

Responsible for creating & managing event pages to accept online registration through Eventbrite.

**Committees**

**Chair - Motor Behavior/Adapted PA/Sport Psychology Search Committee (2025-2026)**

Cal State Northridge

Serving as chair of the committee.

**Chair - Kinesiology Website Committee (2013–2023)**

Cal State Northridge

Responsible for overseeing all aspects of the KIN Website.

**Member - Physical Education Search Committee (2021)**

Cal State Northridge

Served as a member of the committee.

**Kinesiology Chair Search and Screen Committee (2020)**

Cal State Northridge

Served as a member of the committee.

**Member - Motor Behavior Search Committee (2017)**

Cal State Northridge

Served as the committee's Equity & Diversity representative.

**Member - Curriculum Committee (2015)**

Cal State Northridge

Served as liaison for the Exercise Science/Applied Fitness option.

**Other Contributions**

**KIN Department's Website Content Management (2022)**

Cal State Northridge

Responsible for overseeing the migration to Drupal 2.0.

**KIN Department's Website Content Management (2015)**

Cal State Northridge

Responsible for overseeing the migration to Drupal 1.0.

## **Service to the College**

### **CHHD Research Excellence and Innovation Conference (2022)**

Cal State Northridge

Member of the organization committee / Session moderator.

### **CHHD Mentoring Program (2016)**

Cal State Northridge

Served as a mentor to undergraduate students focused on academic and personal success issues.

## **Service to the University and the Community**

### **Academic Technology Committee (ATC) (2020–2023)**

Cal State Northridge

Serves as the CHHD representative.

### **CSUNposium (2019–2022)**

Cal State Northridge

Served as judge/session moderator for the conference (2019, 2020, 2021, 2022).

### **Commit to be Fit Program (2018–2024)**

Cal State Northridge

Serves as the faculty lead for the program.

### **Data Champions Program (2016–2017)**

Cal State Northridge

Responsible for exploring and proposing ways to employ the data to improve student success in the College of HHD.

### **Technology tutor for the New Faculty Orientation & Programs (2015, 2016, 2017)**

Cal State Northridge

Assisted the new faculty members with their technology needs.

### **myCSUNtablet Initiative (2016)**

Cal State Northridge

Assisted faculty members who are teaching with tablets within the Kinesiology Department.

### **International Education Council (2015–2021)**

Cal State Northridge

Served as the liaison for the CHHD.

### **70th Annual Sigma Xi Student Research Symposium (2015)**

Cal State Northridge

Served as moderator and judge for the oral presentation sessions.

**CSUN 19th Annual Student Research and Creative Works Symposium (2015)**

Cal State Northridge

Served as the judge for the poster sessions.

**Electronic Portfolio Committee (2012–2013)**

Eastern Illinois University

Served as a member of the Committee.

**Editorial Service**

**Ad Hoc Reviewer**

**Journal of Kinesiology and Wellness** (2018–present)

**Perceptual and Motor Skills Journal** (2017–present)

**Social Psychology of Education** (2015)

**Other Editorial Contributions**

**Editor-in-chief Journal of Kinesiology & Wellness** (2022–present)

Member of the Editorial Board responsible for overseeing all aspects of the journal's publication process.

**Associate Editor Journal of Kinesiology & Wellness** (2019–2022)

Responsible for reviewing, formatting, and publishing manuscripts to the journal's site

**Professional Service**

**Executive Committee Western Society for Kinesiology and Wellness** (2018–present)

Serves as a member of the Executive Committee.

**Webmaster Western Society for Kinesiology and Wellness** (2018–present)

Responsible for overseeing all aspects of the WSKW Website.

**Professional Affiliations**

**Western Society for Kinesiology and Wellness** (2017–present)

**North American Society for the Psychology of Sport and Physical Activity**  
(2012–2017)

## **Skills**

**Software:** R, Python, SPSS, LaTeX, VSCode.

**Languages:** Portuguese (native) and English (fluent).

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*Last updated: September 2025*