Curriculum Vitae

September, 2022

Isaac N. Gomez, M.S.

Kinesiology Department Murchison Office Complex <u>igomez@westmont.edu</u>



Education

2020 – 2022* (expected)	Doctor of Philosophy in Human Physiology University of Oregon Eugene, OR Dissertation: Influence of Visuomotor Adaptation on Movement Preparation
2018 - 2020	Master of Science in Human Physiology University of Oregon
2012 - 2017	Bachelor of Science in Kinesiology with Emphasis in Exercise Concentration California Polytechnic State University San Luis Obispo, CA

Teaching Experience

Assistant Professor	2022 – present
Kinesiology	
Westmont College	
Course List:	Fall 2022
Motor Learning	
Motor Behavior	
Fitness For Life	
Internship Practicum	
Graduate Employee	2018 - 2022
Human Physiology	
University of Oregon	
 Instructor of Record 	
Cardiorespiratory Physiology	2021
Designed an online course using backwards-design, develo	ped synchronous
lectures, lab activities, assignments and formal assessment	<i>S</i> .

• Lab Instructor Anatomy/Physiology (HPHY 325) 2022 Cardiorespiratory Physiology (HPHY 324) 2022 Motor Control (HPHY 333) 2021 Motor Control 2020 Cardiorespiratory Physiology 2020 Motor Control 2019 Anatomy/Physiology 2019 Cardiorespiratory Physiology 2019

Teaching Philosophy

It is my mission as an educator to encourage the healthy exchange of ideas and experiences, to promote scientific thinking and reasoning, and to equip students with the tools and training they require to excel in their future professions.

Research Positions

Graduate Student University of Oregon Action Control Lab Ian Greenhouse (PI)	2018 – Present
Research Assistant Cal Poly, SLO Human Motion Biomechanics Lab Steve Klisch (PI)	2015 - 2017

Research Output

0	Dissertation:	"Corticospinal Activity During Goal-Directed Reaching" Expected: June, 2022 The project aims to investigate the neurophysiology of human movement, specifically, how preparatory activity is modulated during a reaching task.
0	Publication (in review)	"Assessing Corticospinal Activity During Goal-Directed Reaching"
	()	Isaac N. Gomez, Serena Orsinger, and Ian Greenhouse Journal of Visualized Experiments 2022

0	Publication:	 "Response Preparation Involves a Release of Intracortical Inhibition in Task-irrelevant Muscles" Isaac N. Gomez, Kara Ormiston, and Ian Greenhouse Journal of Neurophysiology 2021 125:2, 523-532 https://doi.org/10.1152/jn.00390.2020 This paper has garnered significant interest, including 200 downloads and 10 social media shares, and is among the top 25% of all research papers scored by Altmetric.
0	Poster Presentation:	"Cortical Silent Period in task-Irrelevant muscles is shortened during movement preparation" Presented at Society for Neuroscience in Chicago, 2019

Research Interests

-Motor Systems-Motor Learning-Movement-Disorders-Transcranial Magnetic Stimulation-Visuomotor Adaptation-Motor Development-Health & Wellness

Committee Service			
0	Graduate Council	2021- 2022	
0	Teaching Effectiveness Committee	2020 - 2022	
0	Diversity, Equity, And Inclusion Committee	2019 - 2020	

Awards

0	Promising Scholar Award		2018	3
	To recruit highly qualified incoming graduate students j	from	diverse	backgrounds
	who add to the academic and scholarly excellence of the	e uni	versity.	

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Related Skills and Experience

0	Electromyography	0	Backwards Course Design
0	Transcranial Magnetic Stimulation	0	Course Management
0	Electrocardiography	0	Leading Discussions
0	Motion Analysis	0	Leading Lab Sections
0	Coding – Matlab	0	Online Course Delivery
0	Participant Recruitment	0	Undergraduate Mentorship
0	Data Management	0	Student Advising
0	Statistical Testing & Analysis	0	Health & Fitness Programming
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<u>Pr</u>	ofessional Training		
<u>Р</u> г о	ofessional Training Graduate Teaching Initiative		2020
			2020 2019
0	Graduate Teaching Initiative		
0 0 0	Graduate Teaching Initiative Responsible Research Course		2019
0 0 0	Graduate Teaching Initiative Responsible Research Course Teaching Effectiveness Course		2019
0 0 0 M	Graduate Teaching Initiative Responsible Research Course Teaching Effectiveness Course entorship		2019 2018

Professional Membership

- Society for Neuroscience
- American Physiological Society

Languages

- English (fluent)
- Spanish (conversational)