

RANDALL DESOUZA ORDOVICH CLARKSON, MD

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EXECUTIVE SUMMARY

- Medical doctor and Professor of Biomedical Sciences at Grand Canyon University, specializing in instruction for pre-med and nursing undergraduates. Teaching focus includes neuroscience, anatomy & physiology, pathophysiology, and behavioral health.
 - Research focus includes the following ongoing projects:
 1. **The Parkinson's Project:** Investigating potential prophylactic compounds (e.g., norpsilocin, metformin) for the treatment and prevention of Parkinson's disease using SH-SY5Y neuroblastoma cell models.
 2. **The Loyalty Project:** A social psychology initiative exploring the roots and expressions of loyalty and pro-social behavior through an interdisciplinary lens, drawing from evolutionary biology, sociology/psychology, and theology.
 3. **The Prosocial Animal Lab (PAL):** Investigating the neurobiological and behavioral mechanisms underlying empathy and helping behavior in rodent models, with implications for understanding prosociality in humans.
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TERTIARY EDUCATION

ROSS UNIVERSITY SCHOOL OF MEDICINE (May 2011 to June 2015)

- Location of Pre-clinical semesters: Portsmouth, Dominica
- Location of Clinical Clerkships: NJ, NY, MD, London, England
- Degree & Graduation Date: Medical Degree (M.D.), July 30, 2016

SECONDARY EDUCATION

ARIZONA STATE UNIVERSITY (August 2004 to May 2009)

- Location: Tempe, AZ
 - Degree Received: Bachelors in Conservation Biology
 - Graduated with Magna Cum Laude honors
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PROFESSIONAL POSITIONS

PROFESSOR OF BIOMEDICAL SCIENCES at GRAND CANYON UNIVERSITY

Location: 3300 W Camelback Rd, Phoenix, AZ 85017

Full-time Faculty Position from January 2023 – Present

Part-time Adjunct Position from September 2021 – December 2022

- Full-time faculty member in the College of Natural Sciences (CNS), teaching pre-nursing and pre-med undergraduate students.
- Instructional expertise spans neurobiology, pathophysiology, microbiology, anatomy & physiology, and vertebrate zoology. Courses taught include:
 - Neurobiology (BIO-343), Microbiology Lecture & Lab (BIO-205/BIO-215), Pathophysiology (BIO-322/BIO-483), Anatomy & Physiology Lecture & Lab (BIO-201/210 and BIO-202/211), Vertebrate Zoology Lab (BIO-415L), Medical Physiology Lab (BIO-360L), and General Biology (BIO-181)
- Active research involvement includes:
 1. **The Parkinson's Project:** Investigating neuroprotective agents in SH-SY5Y cells.
 2. **The Loyalty Project:** Exploring the biological and psychological underpinnings of loyalty and pro-social behavior.
 3. **The Prosocial Animal Lab (PAL):** Studying empathy and helping behavior in rodent models.

ADJUNCT PROFESSOR OF MICROBIOLOGY at ARIZONA COLLEGE OF NURSING

Location: 1620 W Fountainhead Pkwy Suite 110, Tempe, AZ 85282

Part-time Position from August 2022 – April 2023

- Taught Microbiology (BIO-205) lecture and lab to pre-nursing students, covering core topics such as microbial physiology, pathogenic mechanisms, immunology, and infection control.
- Designed and delivered didactic lectures and laboratory instruction using interactive and clinically relevant teaching methods.
- Utilized Blackboard learning management system to post course materials, manage assignments, monitor student performance, and maintain clear communication with students.

CO-FOUNDER & CHIEF MARKETING OFFICER at ABSINTHE MINDED™

Location: Tempe, AZ

Full-time Position from August 2017 – October 2025

- Co-founder of Absinthe Minded, Arizona's first high-quality producer of absinthe
- Coordinating and implementing brand and product development
- Assuring legal compliance in accordance to Federal Alcohol and Tobacco Tax and Trade Bureau (TTB) regulations
- Establishing partnerships with local businesses in the production and manufacturing of high-quality distilled products
- Assuring the consistency of marketing materials in accordance with the mission statement of Absinthe Minded™
- Implementation of sales strategy to deliver product to a highly competitive market
- Supervisor: Kanwar Singh, CEO

ADJUNCT RESEARCH ASSOCIATE at MARICOPA INTEGRATED HEALTH SYSTEM

Location: Mesa, AZ

Part-time from August 2017 - December 2017

- Collecting and assessing data from clinical records and other recorded information
- Conducting literary research in respective disciplines of medicine
- Assisting in the authoring, peer-review, and publishing process

ASSISTANT MEDICAL DIRECTOR at ADAM & EVE MEDICAL

Location: Scottsdale, AZ

Full-time Position from January 2017 – August 2017

- Ensure compliance with rules and regulations set forth by the Arizona Radiation Regulatory Agency (ARRA)
- Assisting with patient intake, evaluations, examinations, & scheduling
- Maintaining patient database and patient information via Electronic Medical Record software (Orchid)
- Ensure adherence to departmental policies and procedures
- Supervisor: Barbara Slusher, Clinic Manager

MARKETING ASSISTANT at ADAM & EVE MEDICAL

Location: Scottsdale, AZ

Full-time Position from November 2015 – January 2017

- Assist in developing marketing content for social media and print campaigns
- Administrator for social media accounts

ADJUNCT CLINICAL EDUCATOR at ROSS UNIVERSITY

Location: Multiple Clinical Sites

Part-time from September 2013 to October 2015

- Leading bi-weekly educational seminars for medical students as required in 3rd and 4th years of medical school
- Preparation of Power Point presentations and examination materials to be administered at end of lectures
- Developing lectures for pathology and case-presentations on specific examples of disease treated in a clinical setting
- Lectures focused on disease etiology, workup diagnosis, standard of care, and different pharmacological approaches
- Areas of study: pathology, neurology, cardiology, microbiology, and psychiatry

SCIENCE & ENGLISH TEACHER at WYZANT

Location: Brooklyn, NY

March 2013 to October 2015

- Independently contracted teacher for AP High school and College-level students
- Science tutoring specializing in Biology, Ecology, Human Anatomy/Physiology, & Pharmacology
- English and Literature studies with focus on grammar, reading comprehension, creative and persuasive writing
- Experience teaching for SAT I/II, ACT, & NYC Regents Examinations

PRINCESS MARGARET HOSPITAL, EMERGENCY DEPARTMENT

Location: Roseau, Dominica

September 2012 to November 2012

- Volunteer medical practitioner in Emergency Room
- Perform physical health examinations on patients in triage
- Contribute written reports of exam findings in patient's medical records
- Perform minor medical procedures under direct supervision of emergency room physician & nursing staff, including but not limited to obtaining IV access, performing routine bloodwork, wound care and suturing for minor skin lacerations

METRO CARE BEHAVIORAL HEALTH SERVICES

Location: Scottsdale, Arizona

April 2006 to October 2007

- Respite subcontractor for mute, 18-year-old patient with Autistic Spectrum Disorder
- Development of daily lesson-plans in accordance with special education curriculum
- Behavior management and redirection
- Ensure the safety and well-being of the patient
- Maintain the usual routine of the patient
- Following medication support plans set forth by the patient's medical team

PROFESSIONAL CERTIFICATIONS

DOCTOR OF MEDICINE

- Medical Degree Obtained from Ross University School of Medicine, July 2016
- ECFMG Certification issued October 16, 2016

TECHNICAL SKILLS

- Expert proficiency at Electronic Medical Record software including Cerner, Epic, and Allscripts
- Expert proficiency at Microsoft Office (Excel, Word, Powerpoint), Adobe Illustrator CC, InDesign CC, Photoshop CS6
- Expert proficiency at PPT Presentations for academic and technical subjects
- Accounting via Quick Books & Customer Relationship Management (CRM) via Sales Force & Constant Contact
- Working proficiency in research and peer-review publishing
- Over 5 years of experience teaching college level STEM subjects (Biology, Anatomy & Physiology, Psychology, Pharmacology)

LANGUAGES

- Portuguese (advanced verbal fluency, moderate reading and writing)
 - French (moderate verbal fluency, moderate reading and writing)
 - Spanish (moderate verbal fluency, minimal reading and writing)
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PROFESSIONAL SOCIETIES

- American Counseling Association, since 2022
 - American College of Physicians, since 2013
 - American Psychiatric Association, since 2016
 - Explorer's Club, NYC Chapter, since 2015
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HONORS & AWARDS

- Arizona State University Dean's List between Spring 2005 to Fall 2008
 - Graduated ASU with Magna Cum Laude Honors
 - Phoenix New Times "Best of Phoenix 2020": www.phoenixnewtimes.com/best-of/2020/food-and-drink/best-green-fairy-11497071
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LEADERSHIP (RESEARCH & CLUB ACTIVITY)

PARKINSON'S PROJECT

Location: Grand Canyon University

December 2022 to Present

Primary Investigators: Dr. O. Clarkson, MD & Dr. Maurice Jabbour, PhD

- This ongoing research project investigates the prophylactic potential of various compounds in mitigating the progression of Parkinson's disease.
- Using in vitro models with SH-SY5Y neuroblastoma cells, the study evaluates neuroprotective efficacy through biochemical and imaging-based assays.
- Techniques employed include cell culturing, MTT viability assays, Western blot analysis, and alpha-synuclein overexpression via plasmid transfection.
- Findings aim to inform future in vivo studies and contribute to the development of early-stage interventions for neurodegenerative diseases.

LOYALTY PROJECT

Location: Grand Canyon University

September 2022 to Present

Primary Investigators: Dr. O. Clarkson, MD & Dr. Magen Branham, PhD

- The Loyalty Project's ongoing investigations seek to better determine the biopsychosocial underpinnings to interpersonal and intrapersonal cohesiveness. Findings will help to understand how factors such as evolutionary biology, psychology/sociology, economics, philosophy, and theology impact loyalty and pro-social behaviors.
- Research methods include systematic review analysis, survey and data analysis, mixed method quantitative and qualitative analysis.

PROSOCIAL ANIMAL LAB (PAL)

Location: Grand Canyon University

January 2025 to Present

Primary Investigators: Dr. Magen Branham, PhD, Dr. O. Clarkson, MD, & Dr. Maurice Jabbour, PhD

- Co-founded and co-direct the Prosocial Animal Lab, an interdisciplinary behavioral neuroscience research group examining the biological foundations of empathy, altruism, and helping behavior in rodents.
- In collaboration with Dr. Peggy Mason (University of Chicago), the lab employs the escape paradigm model to investigate cost-based prosocial decision-making, using a modified "heated bridge" apparatus to quantify motivational thresholds for helping under graded aversive conditions. The program integrates behavioral scoring, affective state assessment, and cross-disciplinary perspectives from psychology, biology, and ethics to advance understanding of prosocial motivation and affective empathy in mammals.

HENRY VANDYKE CARTER CLUB

Location: Grand Canyon University

September 2024 to Present

Faculty Advisor & Founder

- Club founded in homage to Dr. Henry Vandyke Carter, the original illustrator of the medical textbook Gray's Anatomy
- Organize bi-weekly anatomy art sessions in the cadaver lab at GCU for students interested in anatomy & artistic expression

SAILOR'S & MOUNTAINEER'S CLUB

Location: Portsmouth, Dominica

September 2011 to May 2012

President and Leader of Expeditions

- Organize bi-weekly hikes and sailing expeditions to various volcanic mountains on the island of Dominica
- Expeditions: summited Morne Diablotin, Morne Trois Pitons, Moune Aux Diables, Boli Falls, and lead 3 expeditions to the Boiling Lake and Valley of Desolation

PEER-REVIEWED JOURNAL PUBLICATIONS

1. Ordovich-Clarkson, R. D., Jabbour, M., Pelayo, D. A., Lara, D., Croix, L., Mumman, M., Stukas, S., Anderson, R., Meraz, D., Bangura, A., Anderson, B., Bamrud, L., & Blake, C. (2024). Comparing psilocybin to metformin as neuroprotective agents against Parkinson's dementia: A systematic review of evidence and efficacy. *Progress in NeuroPsychopharmacology and Biological Psychiatry*, 111155. <https://doi.org/10.1016/j.pnpbp.2024.111155>
2. Lahti, J., Akkihal, K., Ordovich-Clarkson, R., Kosako Yost, K., & Varkey, T. (2023). Virtual reality experiences in medical education: A systematic literature review. *Yemen Journal of Medicine*, 2(2), 68–74. <https://doi.org/10.32677/yjm.v2i2.4070>
3. Ordovich-Clarkson, R. D. (2008). The Economic & Biological Facets of Mammalian Predator Control. *The Science in Society Review*, 4(2), 19–21. <http://dx.doi.org/10.13140/RG.2.2.25257.92004>

CONFERENCE POSTERS

1. Phillips, I., Fuchsberger, L., Barnes, N., Goroski, M., Basilio, P., Jabbour, M., & Ordovich-Clarkson, R. D. (2025, October 17). *Prophylactic Neuroprotection by Norpsilocin and an In Vitro Model of Parkinson's Disease [Poster Presentation]*. Arizona Physiological Society, 18th Annual Meeting, University of Arizona, Phoenix. ResearchGate. <https://doi.org/10.13140/RG.2.2.27804.76165>
2. Phillips, I., Barnes, N., Millet, A., Jabbour, M., & Ordovich-Clarkson, R. D. (2025). *In Vitro Modeling of Parkinson's Disease: From Oxidative Injury to Alpha-Synuclein Overexpression in SH-SY5Y Cells [Poster Presentation]*. Arizona-Nevada Academy of Science 2025 Annual Meeting, Arizona State University West Valley Campus, Phoenix, AZ. <http://dx.doi.org/10.13140/RG.2.2.11101.32485>
3. Phillips, I., Barnes, N., Millet, A., Jabbour, M., & Ordovich-Clarkson, R. D. (2025). *Overexpression of Alpha Synuclein Gene in Neuroblastoma (SH-SY5Y) Cells to Model Parkinson's [Poster Presentation]*. Canyon Undergraduate Research Conference (CURC), Grand Canyon University, Spring 2025. <http://dx.doi.org/10.13140/RG.2.2.33058.54729>
4. Goroski, M., Basilio, P., Macias, J., Fuchsberger, L., Yilma, E., Jabbour, M., & Ordovich-Clarkson, R. D. (2025). *Protective Effects of Norpsilocin Against Apoptosis in Neuroblastoma Cells: A Western Blot Analysis [Poster Presentation]*. Canyon Undergraduate Research Conference (CURC), Grand Canyon University, Spring 2025. <http://dx.doi.org/10.13140/RG.2.2.22992.21766>
5. Hinton, W., McKim, H., & Ordovich-Clarkson, R. D. (2025). *Loyalty and Pro-Social Behavior from a Multidisciplinary Perspective: A Qualitative Systematic Literature Review [Poster Presentation]*. Canyon Undergraduate Research Conference (CURC), Grand Canyon University, Spring 2025. <http://dx.doi.org/10.13140/RG.2.2.24250.50882>

6. Bamrud, L., Lara, D., Anderson, R., Stukas, S., Bangura, A., Macias, J., Phan, M., Ordovich-Clarkson, R. D., & Jabbour, M. (2024). *Comparing Norpsilocin and Metformin for Neuroprotective Effects on Neuronal SH-SY5Y Cells [Poster Presentation]*. Grand Canyon University's Spring Symposium, Phoenix, AZ. <https://doi.org/10.13140/RG.2.2.15276.27529>
7. Ordovich-Clarkson, R. D., Jabbour, M., Pelayo, D. A., Lara, D., LaCroix, S., Mumman, M., Stukas, S., Anderson, R., Meraz, D., Anderson, B., Bamrud, L., & Blake, C. (2023). *Comparing Psilocybin to Metformin as Neuroprotective Agents Against Parkinson's Dementia: A Systematic Review of Evidence and Efficacy [Poster Presentation]*. The Arizona Physiological Society, 16th Annual Meeting October 27-28, 2023, Midwestern University, Glendale, Arizona. <http://dx.doi.org/10.13140/RG.2.2.16822.92484>

INVITED PRESENTATIONS

1. Ordovich-Clarkson, R. D. (2025, April 3). *A Brief History of Art, Science, & Medicine [Conference presentation]*. Exploring the Intersection of Science and Creativity, Grand Canyon University, Phoenix, AZ. <http://dx.doi.org/10.13140/RG.2.2.11631.55202>
2. Ordovich-Clarkson, R. D., Esprit, C., & Branham, M. (2025, March 3). *Loyalty Dynamics Theory (LDT): A Multidisciplinary Approach to Understanding Loyalty and Pro-Social Behaviors [Conference presentation]*. 8th Annual Kevin McClean Colloquium, Phoenix, AZ, United States. <https://doi.org/10.13140/RG.2.2.24970.58560>
3. Ordovich-Clarkson, R. D. (December 19, 2024). *AI Use in Pedagogy [Oral Presentation]*. CNS AI Colloquium, Grand Canyon University. <http://dx.doi.org/10.13140/RG.2.2.17341.78564>
4. Ordovich-Clarkson, R. D. (December 4, 2023). *Fungi in Behavioral Health and Neuroscience Part 2 [Oral Presentation]*. Microbiology Speaker Series, American Society of Microbiology (ASM) Student Chapter at GCU. <http://dx.doi.org/10.13140/RG.2.2.35796.72322>
5. Ordovich-Clarkson, R. D. (February 27, 2023). *Fungi in Behavioral Health and Neuroscience Part 1 [Oral Presentation]*. Microbiology Speaker Series, American Society of Microbiology (ASM) Student Chapter at GCU.

SCIENTIFIC BLOG POSTS

1. Ordovich-Clarkson, R. D. (2025, April 21). *The Dark Yet Fascinating History of Art, Science, & Medicine*. Dr. O. Clarkson; Art, Psychology, & Medicine. <https://www.droclarkson.com/post/the-dark-yet-fascinating-history-of-art-science-medicine>
2. Ordovich-Clarkson, R. D. (2025, April 21). *Anatomy Meets Art: Showcasing the Creative Works of the Henry Vandyke Carter Club*. Dr. O. Clarkson; Art, Psychology, & Medicine . <https://www.droclarkson.com/post/anatomy-meets-art-showcasing-the-creative-works-of-the-henry-vandyke-carter-club>
3. Ordovich-Clarkson, R. D. (2025, April 14). *Sweet Dreams Are Made of Zzz's: Melatonin's Effects on the Brain*. Art, Psychology, & Medicine Blog. <https://www.droclarkson.com/post/sweet-dreams-are-made-of-zzz-s-melatonin-s-effects-on-the-brain>
4. Ordovich-Clarkson, R. D. (2025, March 11). *Exploring Loyalty Dynamics Theory at the 8th Annual Kevin McClean Colloquium*. Art, Psychology, & Medicine Blog. <https://www.droclarkson.com/post/exploring-loyalty-dynamics-theory-at-the-8th-annual-kevin-mcclean-colloquium>
5. Ordovich-Clarkson, R. D., Esprit, C., Hinton, W., & Navarro, J. (2024, December 29). *The Loyalty Project: Exploring a Multidisciplinary Spectrum of Virtue*. Dr. O. Clarkson. <https://www.droclarkson.com/post/the-loyalty-project-exploring-the-spectrum-of-virtue>
6. Ordovich-Clarkson, R. D. (2024, November 10). *Exploring New Frontiers in Parkinson's Dementia Prevention: How Psilocybin and Metformin Could Change the Game*. Art, Psychology, & Medicine Blog. <https://www.droclarkson.com/post/exploring-new-frontiers-in-parkinson-s-dementia-treatment-how-psilocybin-and-metformin-could-change>
7. Ordovich-Clarkson, R. D. (2022, December 17). *Substance Use Vs. Impulse Control Disorders: Key Clinical Considerations*. Art, Psychology, & Medicine Blog. <https://www.droclarkson.com/post/substance-use-vs-impulse-control-disorders-key-clinical-considerations>

8. Ordovich-Clarkson, R. D. (2022, September 19). *Are Mental Health Diagnoses Too Stigmatizing?* Art, Psychology, & Medicine Blog. <https://www.droclarkson.com/post/are-mental-health-diagnoses-too-stigmatizing>
9. Ordovich-Clarkson, R. D. (2022, August 25). *Ground Control to Major Tom: The Rise of Telehealth in Psychotherapy.* Art, Psychology, & Medicine Blog. <https://www.droclarkson.com/post/ground-control-to-major-tom-the-rise-of-telehealth-in-psychotherapy>
10. Ordovich-Clarkson, R. D. (2022, August 21). *Treating Drug Abuse with Drugs.* Art, Psychology, & Medicine Blog. <https://www.droclarkson.com/post/treating-drugs-with-drugs>
11. Ordovich-Clarkson, R. D. (2022, August 13). *Freud's Psychoanalytic Theory in Practice.* Art, Psychology, & Medicine Blog. <https://www.droclarkson.com/post/freud-s-psychoanalytic-theory-in-practice>
12. Ordovich-Clarkson, R. D. (2022, July 11). *"Follow The Science": How the Replication Crisis has Made Science a Dubious Prospect.* Art, Psychology, & Medicine Blog. <https://www.droclarkson.com/post/follow-the-science-how-the-replication-crisis-has-made-science-a-dubious-prospect>
13. Ordovich-Clarkson, R. D. (2022, June 30). *Broken Soldiers: A Psychotherapeutic Approach to Helping Veterans Reintegrate into Civilian Life.* Art, Psychology, & Medicine Blog. <https://www.droclarkson.com/post/broken-soldiers-a-psychotherapeutic-approach-to-helping-veterans-reintegrate-into-civilian-life>
14. Ordovich-Clarkson, R. D. (2022, June 20). *Dear Race Hustlers: Treat Others as You Would Like Others to Treat You.* Art, Psychology, & Medicine Blog. <https://www.droclarkson.com/post/dear-race-hustlers-treat-others-as-you-would-like-others-to-treat-you>
15. Ordovich-Clarkson, R. D. (2022, June 19). *Your Personality: A Brief Introduction to the Big Five Trait Model.* Art, Psychology, & Medicine Blog. <https://www.droclarkson.com/post/your-personality-a-brief-introduction-to-the-big-five-trait-model>
16. Ordovich-Clarkson, R. D. (2022, May 15). *Jungian Psychoanalysis: A Brief Introduction.* Art, Psychology, & Medicine Blog. <https://www.droclarkson.com/post/jungian-psychoanalysis-a-brief-introduction>
17. Ordovich-Clarkson, R. D. (2022, May 12). *To Work or Not to Work: What Vocation Best Suits My Personality?* Art, Psychology, & Medicine Blog. <https://www.droclarkson.com/post/to-work-or-not-to-work-what-vocation-best-suits-my-personality>
18. Ordovich-Clarkson, R. D. (2022, May 7). *Rational Emotive Behavior Therapy in the Treatment of Adjustment Disorder and Social Isolation.* Art, Psychology, & Medicine Blog. <https://www.droclarkson.com/post/rational-emotive-behavior-therapy-in-the-treatment-of-adjustment-disorder-and-social-isolation>
19. Ordovich-Clarkson, R. D. (2022, May 6). *The Impact of Divorce on Adolescents.* Art, Psychology, & Medicine Blog. <https://www.droclarkson.com/post/the-impact-of-divorce-on-adolescents>
20. Ordovich-Clarkson, R. D. (2022, May 6). *Psilocybin: Psychedelics and Hallucinogens in Medical and Spiritual Practice.* Art, Psychology, & Medicine Blog. <https://www.droclarkson.com/post/psilocybin-psychedelics-and-hallucinogens-in-medical-and-spiritual-practice>
21. Ordovich-Clarkson, R. D. (2022, May 6). *Schizophrenia: Psychological Testing and Clinical Diagnosis.* Art, Psychology, & Medicine Blog. <https://www.droclarkson.com/post/psychological-testing-and-clinical-diagnosis-in-schizophrenia>

MENTORSHIP IN STUDENT PRESENTATIONS

1. Swanson, O., Winslow, E., Ingalls, H., Kindelberger, L., Ordovich-Clarkson, R. D., & Branham, M. (2025). *Loyalty Dynamics Theory: Biological Domain* [oral presentation]. Canyon Undergraduate Research Symposium (CURC), Phoenix, AZ, United States. <https://doi.org/10.13140/RG.2.2.31999.06568>
2. Mckim, H. J., Hannay, M. L., O'Reilly, C., Alvarado, D., Davis, C., Kassim, O., Aigbokhan, E., Ordovich-Clarkson, R. D., & Branham, M. (2025, March 31). *It Takes Both Wings to Fly: Loyalty Behaviors Across Left-Wing and Right-Wing Politics* [Conference Presentation]. Canyon Undergraduate Research Conference (CURC), Phoenix, AZ, United States. <http://dx.doi.org/10.13140/RG.2.2.14302.14407>
3. Hannay, M., Lara, D., Fuchsberger, L., Walker, J., Ordovich-Clarkson, R., & Jabbour, M. (2024). *The Neuroprotective Effects of Norpsilocin and Metformin: A Neuronal Cell Model* [Conference presentation]. Canyon Undergraduate Research Symposium, Fall 2024, Grand Canyon University. <http://dx.doi.org/10.13140/RG.2.2.30231.07848>

PROFESSIONAL SERVICES: AD HOC JOURNAL REVIEWER

- Psychological Review
 - United Scientific Group
 - Canyon Journal of Undergraduate Research
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COURSE & CURRICULUM DEVELOPMENT

NEUROBIOLOGY (BIO-343)

Location: Grand Canyon University, Phoenix, AZ

Course Developer and Course Lead from Fall 2023 - Present

- Co-Subject Matter Expert (SME) in the development of neurobiology curriculum during Fall of 2023
- Coordination and integration of content from Oxford's Neuroscience, 7th Edition by Perves et al.
- Lecture development and exam materials produced to meet learning objectives set forth by GCU's Pre-Dental Bachelors program

VERTEBRATE ZOOLOGY LAB (BIO-415L)

Location: Grand Canyon University, Phoenix, AZ

Course Developer and Course Lead From Fall 2021 - Present

- Development of vertebrate zoology course content for the Fall of 2021
- Coordination and integration of content based off The Dissection of Vertebrates - 3rd Edition 3 by Gerardo De Iuliis, PhD and Dino Pulerà, MScBMC, CMI

COURSE LEAD POSITIONS

- Vertebrate Zoology Lab (BIO-415L); 2021 to present.
 - Medical Physiology Lab (BIO-360L); 2022 to present
 - Neurobiology (BIO-343); 2023 to present
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REFERENCES

Dr. David Jackson, MD

- Full-Time Faculty, College of Natural Sciences (CNS), Grand Canyon University
- Phone: (602) 803-6876 | Email: David.Jackson4@gcu.edu
- **Nature of relationship:** Colleague at GCU since 2021; frequent collaborator on curriculum development in Pathophysiology and Medical Physiology.

Dr. Maurice Jabbour, PhD

- Coordinator/Adjunct Faculty, Grand Canyon University
- Phone: (520) 437-8648 | Email: Maurice.Jabbour@gcu.edu
- **Nature of relationship:** Co-PI on the Parkinson's Project; collaborator in neuroprotective research and student mentorship since Fall 2023, with joint publications and conference presentations.

Dr. Thomas Varkey, MD

- Neurology Resident, Banner University Medical Center – Phoenix
- Phone: (623) 707-5338 | Email: Thomas.Varkey@bannerhealth.com
- **Nature of relationship:** Co-author on a published systematic review on virtual reality in medical education; mentor and collaborator in neurology-focused scholarly work.