

## Giancarlo E. Denaroso

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### Education

University at Buffalo, The State University of New York  
Master of Science, Neuroscience, *Expected graduation: May 2022*  
Thesis: TBD  
Advisor: Pablo Paez, Ph.D.  
GPA: 3.75/4.0

College at Geneseo, The State University of New York  
Bachelor of Arts, Psychology, *Magna Cum Laude*, December 2018  
Minors: Cognitive Science, Human Development  
Psychology GPA: 3.88/4.0, Cumulative GPA: 3.77/4.0

### Honors

*Member, Psi Chi: Psychology National Honor Society. Inducted 2018.*  
*Member, Golden Key International Honor Society. Inducted 2018.*  
*Member, Phi Eta Sigma Honor Society. Inducted 2016.*

### Certifications/Trainings

*IACUC Lab Animal Procedures, Roswell Park Comprehensive Cancer Center, 2020*  
*CITI Biomedical Research, Roswell Park Comprehensive Cancer Center, 2020*  
*EMT-Basic, NYS Department of Health, Bureau of EMS, 2019*  
*CPR and AED Training, CHS Mobile Integrated Health Care, 2019*  
*NYS Mandated Reporter, University of Rochester, 2018*  
*HIPAA Privacy and Security Training, University of Rochester, 2018*  
*CITI Human Subjects Protection Program, University of Rochester, 2018*

### Presentation

Wiley, V., Hines, B., & Denaroso, G. (2019, June). *Sequential replay or spatial reconstruction? Investigating the dynamics of reconstruction*. Poster presented at the annual meeting of the Canadian Society for Brain, Behavior & Cognitive Science, Waterloo, ON.

### Research Experience

*Research Assistant*

**Hunter James Kelly Research Institute**

*September 2020 – Present*

University at Buffalo, Buffalo, NY

Principal Investigator: Pablo Paez, Ph.D.

- Perform immunohistochemistry on transgenic mouse brains to elucidate biochemical mechanisms of (de)myelination
- Capture photomicrographs of stained neural tissue using fluorescence microscopy (Olympus IX83) and quantify histological samples using MetaMorph Advanced software
- Conduct polymerase chain reaction (PCR) testing for genetic screening
- Utilize GraphPad Prism to conduct data analysis and CorelDRAW for figure and graph design

*Research Student*

**Roswell Park Comprehensive Cancer Center**

*October 2020 – November 2020*

University at Buffalo, Buffalo, NY

Principal Investigator: Joseph Sperryak, Ph.D.

- Assisted in data collection for a project developing an animal model for Progressive Supranuclear Palsy (PSP), an atypical variant of Parkinsonism, to fulfill lab rotation requirements
- Helped image fixed rodent brains using magnetic resonance imaging (MRI) technology and ParaVision 4.0 software
- Quantified lateral ventricular volume and rendered 3-D images using Analyze 7.0

*Research Assistant*

**Project THRIVE, Mt. Hope Family Center**

*September 2018 – August 2020*

University of Rochester, Rochester, NY

Principal Investigator: Patrick Davies, Ph.D. (UR)

- Assisted in a longitudinal study investigating the impact of constructive interparental conflict on 4 to 6-year-olds' physiology, neurobiological responses, and socioemotional processing
- Assessed children's emotional recognition using Tobii Pro Spectrum eye tracking monitor and software
- Administered psychometric tests (e.g., PPVT) and other empirical tasks to determine children's verbal intelligence, emotional recognition, social problem-solving skills, affectivity, and effortful control
- Applied body electrodes on children to collect cardiological data and analyze autonomic nervous system reactivity (e.g., RSA, PEP, and impedance) using MindWare technology
- Collected saliva samples to assess neuroendocrine functioning (e.g., HPA axis) and ascertain the role of cortisol reactivity in children's psychological adjustment
- Completed assessments of children's disposition and subjectivity (e.g., Q-Sort, HBQ)
- Interviewed parents to evaluate parenting style and conflict resolution abilities, and to discern potential psychopathological symptoms in their children
- Performed behavioral coding on familial tasks, child emotion assessments and parent interviews
- Wrote and ran syntax on data discrepancies in SPSS and manage collected eye tracking and cortisol data
- Assisted in the organization of data files and recruitment of new participants
- Developed protocols and manuals to ensure an efficacious work environment
- Oversaw and assisted team of undergraduate interns with experimental tasks, data organization and miscellaneous office duties

*Research Intern*

**Project TRUST, Mt. Hope Family Center**

*January 2018 – July 2018*

University of Rochester, Rochester, NY

Principal Investigators: Fred Rogosch, Ph.D. (UR), Dante Cicchetti, Ph.D. (UMN), Melissa Koenig, Ph.D. (UMN)

- Assisted in a cross-sectional study investigating how the quality of relationships between 3 ½-year-olds (maltreated and non-maltreated) and their maternal caregivers precipitates children's (mis)trust
- Provided supervision and care to adult participants' infants and toddlers
- Applied EEG technology on 3 ½-year-old children and collected data using E-Prime and Neuroscan 4.0
- Marked time intervals for and assisted in theory of mind, socio-cognitive, attachment, and epistemic trust paradigms
- Applied Empatica E4 technology to collect biophysiological data (e.g., heart rate, blood volume pulse, and electrodermal activity)

- Assisted in the preparation and utilization of SMI RED-m technology for eye tracking data collection
- Manually scanned completed questionnaires and uploaded collected data to Microsoft Excel
- Participated in the promulgation of values and demands inculcated by a structured research environment

*Research Assistant*

**Human Cognition and Memory Lab**

*August 2017 – December 2018*

SUNY Geneseo, Geneseo, NY

Principal Investigator: Jason Ozubko, Ph.D.

- Contributed to and coordinated projects focused on memory formation and decay, cognitive rejuvenation, recollective and familiar memory processes, and spatial reconstruction
- Developed and implemented appropriate experimental instructions, debriefings, consent forms and IRB proposals
- Engaged with human participants and provided clarification on instructions when needed
- Collected spatial reconstruction data from virtual reality paradigms using Unity software and Oculus VR technology
- Performed statistical analysis on collected quantitative data
- Created memory experiments using PsychoPy software
- Collected, organized, and analyzed data using PsychoPy and Geany software, Python programming language, and Microsoft Excel
- Presented research findings, and responded to and discussed collegial queries, potential confounds, and research directions at weekly laboratory meetings and an international science conference (CSBBCS)
- Participated in weekly analysis of the current literature emphasizing the utilization of various neuroimaging techniques to investigate episodic and semantic memory, attention, and encoding

**Research Skills**

Training in immunohistochemistry; polymerase chain reaction; animal perfusion and tissue dissection; magnetic resonance imaging and image analysis using Analyze 7.0; spinning disk confocal microscopy using Olympus IX83; data analysis using GraphPad Prism; figure and graph design on CorelDRAW; photomicrograph analysis in ImageJ; syntax writing and statistical analysis using SPSS, electrophysiological data collection and analysis using E-Prime and Neuroscan software; biophysiological data collection using Empatica E4 and MindWare technologies; eye tracking data collection using SMI software and Tobii technology; neuroendocrine data collection and behavioral coding; experiment development and programming using PsychoPy software; proficient in Microsoft PowerPoint and Excel, database navigation, literature searches and reviews, reference management, and upper-level scientific writing.

**Related Coursework**

Neurobiology  
Sensation & Perception  
Developmental Psychopathology  
Human Neuropsychology  
Adolescent Development  
Programming (Python)  
Neurobiology of  
Inflammation & Injury

Quantitative Neuroanatomy  
Behavioral Research Methods  
Child Development  
Cognitive Psychology  
Behavioral Statistics  
Human Biology  
Molecular  
Neuropsychopharmacology

Heredity  
Personality Psychology  
Psychological Testing  
Human Ecology  
Cognitive Neuroscience of  
Memory  
Cellular & Molecular  
Neuroscience

## Work Experience

### *Teaching Assistant*

#### **Developmental Psychopathology**

*August 2018 – December 2018*

SUNY Geneseo, Geneseo, NY

Supervisor: Michael Lynch, Ph.D.

- Graded students' written assignments on psychopathology
- Held weekly office hours, extended office hours, and review sessions to answer queries and assist students with their comprehension of lecture content and course assignments
- Developed exam questions and review guides
- Attended weekly meetings with supervisor to strategize for subsequent lectures
- Conducted a final literature review and presented on the neurobiology of eating disorders

### *Troubled Youth Camp Counselor*

#### **Camp Possibilities, Hillside Family of Agencies**

*June 2018 – August 2018*

SUNY Geneseo, Geneseo, NY

Supervisor: Michael Lynch, Ph.D.

- Provided support and guidance for at-risk children and adolescents with behavioral and emotional adversities
- Facilitated the development of appropriate coping mechanisms and interpersonal skills
- Contributed to the establishment of an inclusive and safe environment for troubled youth
- Wrote a final literature review paper that synthesized both relevant empirical findings and personal anecdotes

### *Teaching Assistant*

#### **Introduction to Cognitive Psychology**

*August 2017 – December 2017*

SUNY Geneseo, Geneseo, NY

Supervisor: Jason Ozubko, Ph.D.

- Graded students' paper assignments on memory and human cognition
- Held weekly office hours to answer queries and assist students in their comprehension of lecture content and course assignments
- Facilitated group discussions focused on the relevant literature in cognitive psychology
- Attended weekly lectures that taught TAs how to provide effective instruction to students

### *Resident Assistant*

#### **Department of Student Life**

*August 2016 – December 2018*

SUNY Geneseo, Geneseo, NY

- Oversaw and provided guidance to occupants of residence halls which focused on meeting the needs of medically interested students
- Provided support to students with multifarious psychological and social difficulties using CBT inspired methodologies
- Collaborated with other devoted student professionals to construct milieus that were predicated on intellectual investigation and personal development
- Mediated residents' interpersonal conflicts, provided students with information on Geneseo's on-campus health and counseling services, supported University Police in investigations and attended role-development workshops to improve professional skills
- Held interactive communal programs and served as an academic, mental health, and social resource for

residents

- Organized and participated in medical interest forums which consisted of health professionals, science professors and prospective medical students
- Maintained structural and aesthetic integrity of buildings

### **Volunteer/Clinical Experience**

*Shadow*

**Neuropsychology Clinic** (10 hours)

*May 2019 – June 2019*

Strong Memorial Hospital, Rochester, NY

Supervisor: John Langfitt, Ph.D. (UR)

- Observed clinical interviews and assessments of patients with neurologic and psychiatric conditions
- Discussed patient sessions, appropriate treatments/interventions, and the etiology and phenomenology of functional disorders (e.g., psychogenic nonepileptic seizures), as well as other neuropsychological maladies (e.g., TBI, bipolar disorder, MDD), with clinician
- Observed psychometrist administer neuropsychological assessments

*Shadow*

**Inpatient Neurology** (60 hours)

*February 2019 – May 2019*

Strong Memorial Hospital, Rochester, NY

Supervisor: Curtis Benesch, MD, MPH

- Observed physicians (MDs, DOs) as they discuss pathologies, interventions and prognoses with their team of health professionals (e.g., nurse practitioners) and medical students for both general neurology and stroke patients
- Visited patients on the neurology and neurosurgery floor, ED, and neuro-ICU with professional staff
- Spectated physicians interacting with patients and performing neurologic assessments (e.g., bilateral strength tests, ocular examinations, verbal response queries), and learn appropriate bedside manner
- Conversated with and inquired professional staff about neuropathology, medical terminology and patient trajectory
- Learned how to read CT, CTA, MRI, and Echocardiogram images
- Sat in on Professor Rounds and learn about novel clinical cases, general and vascular neurologic conditions, the physics of CT and MRI scans, and neuroanatomy

*Volunteer*

**Inpatient Psychiatry** (30 hours)

*February 2019 – June 2019*

Strong Memorial Hospital, Rochester, NY

Supervisor: Heather Jackson, RN-BC, BSN

- Provided emotional support to and conversated with patients with various psychiatric disorders (e.g., schizophrenia, manic depression)
- Assisted patients with daily proceedings (e.g., eating, using the restroom, making phone calls)
- Obtained pertinent information on patient etiology, symptoms, individualized treatment plans and prognoses from nursing staff

*Supervisor/Group Leader/Volunteer*

**FASD Family Night** (70 hours)

*September 2017 – February 2020*

Mt. Hope Family Center, Rochester, NY

Supervisor: Christie Petrenko, Ph.D.

- Coordinated and implemented developmentally appropriate activities for children, teens, and young adults

with fetal alcohol spectrum disorders (FASDs)

- Encouraged social skill development and self-regulation
- Attended information sessions about the etiology and treatment of FASDs
- Leadership role entailed communicating with volunteers prior to family night and assisting graduate students with organizational proceedings
- Supervisor role entailed creating room assignments based on prior knowledge of and experience with clinical population, attending monthly planning/supervision meetings, and reviewing classroom outlines submitted by group leaders and volunteers
- Presented on the brain and behavioral facets of FASD

### **References**

Furnished upon request.