

# Grace Jacqueline Goodwin

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## EDUCATION

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### GRADUATE:

<u>Dates</u>	<u>Name</u>	<u>Degree</u>	<u>Subject</u>
2020 –	<i>University of Nevada, Las Vegas</i> (Las Vegas, NV) Mentor: Daniel Allen, Ph.D.	Ph.D. ( <i>in progress</i> )	Clinical Psychology, Neuropsychology
2018 – 2020	<i>University of Illinois, Urbana-Champaign</i> (Champaign, IL) Mentors: Wendy Heller, Ph.D. Karen Rudolph, Ph.D., Aron Barbey, Ph.D.	M.S.	Psychological Science

### UNDERGRADUATE:

<u>Dates</u>	<u>Name</u>	<u>Degree</u>	<u>Subject</u>
2010 – 2014	<i>Loyola Marymount University</i> (Los Angeles, CA)	B.A. <i>Cum Laude</i>	Psychology, Dance

## RESEARCH INTERESTS

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I am interested in how neuroplasticity supports cognitive and emotional rehabilitation across domains of function and across the life span. In particular, I am focusing on traumatic brain injury through a neuropsychological framework and psychiatric illness in adolescence through a developmental psychopathology framework. Specific interests include:

- Immediate vs. long-term cognitive and emotional deficits from traumatic brain injury
- Improving techniques for early detection of neurodevelopmental disorders in brain injured populations
- Identifying neuroimaging techniques that can distinguish between concussed populations and healthy controls
- Examining how individual differences in baseline functioning influence heterogeneous emotional and psychological outcomes of brain injury
- Brain and behavior relationships in clinical populations
- Theories of emotion and implications for mental health in adolescence

## AWARDS AND HONORS

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2020	<b>Graduate Award for Excellence in Psychological Science, UIUC</b> Given to a student in the Masters of Science in Psychological Science for outstanding achievement in academics, professional development, and research collaboration and scholarship
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- 2014                    **Cum Laude Distinction for Bachelor of Arts, Loyola Marymount University**  
For maintaining a high cumulative GPA
- 2014                    **Dance National Honors Award**  
For outstanding grades, leadership, and involvement in the major
- 2011 - 2014           **Dean's List, Loyola Marymount University**  
Achieving GPA of 3.5 or higher
- 2010                    **The President's Volunteer Service Award**  
Awarded for 100+ hours of community service in an academic year
- 2010                    **Congressman Miller Volunteer Award**  
Recognition for service to the community
- 2009                    **Jefferson Award for Service**  
Honoring students for their extraordinary commitment to serving their community.  
Awarded to one student per year
- 2009                    **History Departmental Award**  
Awarded to one student per year for achievement in history courses
- 2009                    **Pleasant Hill Volunteer of the Year Nominee**  
Four high school students in the city of Pleasant Hill are nominated for service to their town
- 2008 - 2010           **Soroptimist Violet Richardson Award**  
Awarded to young women ages 14-17 who volunteer within their communities and schools
- 2007 - 2010           **California Scholarship Federation**  
Awarded to students who possess high standards in academics

## **PEER-REVIEWED PUBLICATIONS**

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Rudolph, K.D., Monti, J.D., Flynn, M., **Goodwin, G.J.** Maladaptive Social Consequences of Emotional Clarity Deficits in Early Adolescence. *Journal of Early Adolescence*.

## **MANUSCRIPTS IN PREPARATION (At least partially written)**

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**Goodwin, G.J.**, Modi, H.H., Skymba, H.V., Davis, M.M., Weldon, A.L., Heller, W., Rudolph, K.D. Fixed Emotion Mindsets and Gender Differences in Internalizing Symptoms.

Talukdar, T., **Goodwin, G.J.**, Di Pietro, V., Anderson, E., Zwilling, C., Davies, D., Belli, A., Barbey, A.K. Using Blood Oxygen Level-Dependent (BOLD) Signal Variability as a Biomarker of Brain Injury in Sport-Related Concussion.

## **POSTER PRESENTATIONS**

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\*Presenting author

Moore, M., **Goodwin, G.J.\***, Anderson, E., Zwilling, C., Talukdar, T., Hillman, C.H., Cohen, N.J., Kramer, A.F., Barbey, A.K. (2020, May). Individual differences in personality traits and meta-traits are associated with features of intrinsic brain networks. Poster presented virtually at Cognitive Neuroscience Society.

Talukdar, T., **Goodwin, G.J.\***, Di Pietro, V., Anderson, E., Zwilling, C., Davies, D., Belli, A., Barbey, A.K. (2020, May). Using Blood Oxygen Level-Dependent (BOLD) Signal Variability as a Biomarker of Brain Injury in Sport-Related Concussion. Poster presented virtually at the University of Illinois, Urbana-Champaign Master of Science in Psychological Science Research Symposium.

**Goodwin, G.J.\***, Modi, H. H., Skymba, H. V., Davis, M. M., Weldon, A. L., Heller, W., Rudolph, K. D. (2019, September). Fixed Emotion Mindsets Contribute to Gender Differences in Internalizing Symptoms. Poster presented at Society for Research on Psychopathology, Buffalo, NY.

Chan, A., Karpel, H., Herera, C., **Goodwin, G.J.**, Thienemann, M., Farhadian, B., Willet, T., Mellins, E., Frankovich, J. (2019, April). Children with sudden onset neuropsychiatric symptoms: inflammation markers, arthritis, enthesitis and concurrent autoimmune/inflammatory diseases. Poster presented at the Childhood Arthritis and Rheumatology Research Alliance Annual Scientific Meeting, Louisville, KY.

## **RESEARCH EXPERIENCE**

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August 2018 - Present **Cognitive and Affective Neuroscience of Psychopathology Lab in collaboration with the Family Studies Lab, Champaign, IL**

**Mentors: Karen Rudolph, PhD and Wendy Heller, PhD**

Contributing to a study that investigates childhood emotional development in adolescence. In particular, exploring the relationship between entity theories of emotion and affective disorders via emotional regulation strategies and peer stress exposure. Examining neural correlates of theories of emotion. Conducting independent research examining gender differences in mindsets in adolescence and mental health implications. Specific responsibilities include:

- Recruit and schedule participants
- Clean, manage, and analyze adolescent mindset, emotion regulation, stress, depression, and anxiety data with Qualtrics and SPSS
- Coordinate fMRI (3 Tesla Siemens Prisma scanner) study and assist in the acquisition of T2-weighted echoplanar images, BOLD, neural reactivity, and neural regulation data. Assist participants onto machine, set up simultaneous physiological recordings, run Emotional Go/No-Go and Emotional Challenge tasks
- Complete data analysis and assist in mindset measure development
- Assist with development of grant proposal
- Train and supervise undergraduate research assistants on data collection and management

August 2018 - Present **Decision Neuroscience Lab, Champaign, IL**

**Mentor: Aron Barbey, PhD**

Currently involved in mild traumatic brain injury research. Co-led a longitudinal acute traumatic brain injury project using neuroimaging and neuropsychological testing. Specifically, correlating post-injury functional neural connectivity changes with patient symptoms, cognitive deficits, prolonged complaints, and capacity for recovery. Contributing to a manuscript that compares the IMPACT cognitive test and BOLD

variability in distinguishing concussed athletes from controls. Conducting independent research on the relationship between neural networks and personality traits. Specific responsibilities include:

- Assist with neuropsychological tests (D-KEFS, NIH Toolbox, WTAR)
- Coordinate fMRI (3 Tesla Siemens Prisma scanner) study and assist in the acquisition of DTI, elastogram, BOLD, T2, and FLAIR data. Assist participants onto machine, set up simultaneous physiological recordings
- Oversee protocol piloting on various 3T MR scanners
- Troubleshoot participant recruiting techniques
- Train and supervise undergraduate research assistants on neuropsychological test batteries

July 2016 - June 2018 **Stanford Pediatric Acute-onset Neuropsychiatric Syndrome (PANS) Clinic, Palo Alto, CA**

**Mentor: Jennifer Frankovich, MD, MS**

Held several positions across PANS clinical research team. Specific responsibilities included:

- IRB manager: wrote and submitted IRB protocol modifications, ensured protocol compliance, conducted continuing protocol review
- Database manager: created surveys and data collection instruments, distributed surveys to patient families, created reports for data analysis, data management and organization
- Basic science liaison: coordinated specimen (blood, cerebral spinal fluid, tonsillar tissue) collection with patients and clinicians, handled sample requests, coordinated all research specimen projects with the Human Immune Monitoring Center, attended meetings with scientists and other HIMC members, collected data on research specimens, selected specimen to include in experiments
- Research duties: recruited/screened/consented healthy controls for research, examined neuropsychological data on a patient cohort, examined ASL perfusion data on PANS patients and healthy controls, consented patients and families for research, created posters for presentations, collaborated on manuscripts
- Clinical Responsibilities: implemented/administered ImpACT test to patients, wrote chart reviews, prepared patient information worksheets for clinicians, trained new volunteers and research assistants, documented patient neurological examination results, coordinated specimen collection with clinicians/phlebotomists/radiologists/MRI technicians. Attended daily case conferences and rounds

July 2016 - Aug 2018 **University of California, Berkeley, Cognitive Development and Learning Lab**

**Mentors: Alison Gopnik, PhD and Nadya Vasilyeva, PhD**

Investigated the role of stability of causal relationships across varying background circumstances. Specifically, explored how explanation and causal reasoning contribute to learning and decision making in early childhood. Specific responsibilities included:

- Assisted postdoctoral associate run two experiments: one examined whether young children prefer stable or unstable causal relationships, the other aimed to characterize structural thinking throughout childhood (3-7-year-old children)
- Participated in development of new studies (from design to procedure and stimuli construction)
- Recruited and consented participants
- Acted as lead experimenter on both protocols

- Adapted and formatted videos from testing sessions
- Processed and coded behavioral data
- Trained new research assistants on research protocols

## **INVITED TALKS**

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### **Proseminar in Developmental Psychology, Champaign IL**

Invited speaker to PhD students and faculty in the Developmental Psychology program (planned for 2020, March; cancelled due to COVID-19). *Fixed Emotion Mindsets and Gender Differences in Internalizing Symptoms.*

### **Applied Regression Analysis in Educational Psychology PhD Program Guest Speaker, Champaign, IL**

Invited guest speaker to PhD students enrolled in the Applied Regression Analysis course in Educational Psychology (planned for 2020, April; cancelled due to COVID-19). *How to analyze your data and submit for publication while maintaining best research practices.*

### **Capstone Research Methods in Psychology Guest Speaker, Champaign, IL**

Invited guest speaker to Psychology undergraduates enrolled in the Capstone seminar course (2019, October). *How to present empirical research.*

### **Undergraduate Psychology Association & Psi Chi Society Meeting, Champaign, IL**

Invited guest speaker to students in the Undergraduate Psychology Association and Psi Chi Society (2019, September). *My research journey, careers in Psychology, and tips for success in the graduate school application process.*

### **Psychology MSPS Orientation, Champaign, IL**

Invited address to incoming Master of Science students introducing the program and my specific line of research (2019, August). *Tips for success in graduate school.*

## **RELEVANT TRAININGS**

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| August 2018   | Violence/Suicide Prevention Training, Amy Cohen, PhD, University of Illinois at Urbana-Champaign, IL  |
| August 2018   | Magnetic Resonance Imaging Safety Training: 3 Tesla MR, Shelly Yambert, Beckman Institute Biomedical Imaging Center, University of Illinois at Urbana-Champaign, IL |
| February 2019 | Brain Injury Symposium, Carle Rehabilitation Services, Carle Foundation Hospital, Urbana, IL  |

## **SPECIALIZED ASSESSMENT TRAINING**

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Beery Visual Motor Integration (VMI)  
 Behavior Rating Inventory of Executive Function (BRIEF)  
 Bruininks-Oseretsky Test of Motor Proficiency (BOT)  
 California Verbal Learning Test (CVLT)  
 CNS Vital Signs – Computerized Neurocognitive Assessment Software  
 Delis-Kaplan Executive Function System (D-KEFS)  
 Grooved Pegboard Test  
 Immediate Post-Concussion Assessment and Cognitive Testing (ImPACT)  
 ImPACT Pediatric  
 Integrated Visual and Auditory Continuous Performance Test (IVA-2)  
 NIH Toolbox

Rey-Osterrieth Complex Figure Test  
Test for Colour Blindness  
Test of Variable Attention (TOVA)  
Wechsler Adult Intelligence Scale 4<sup>th</sup> Edition (WAIS-IV)  
Wechsler Intelligence Scale for Children 5<sup>th</sup> Edition (WISC-V)  
Wechsler Memory Scale (WMS-IV)  
Wechsler Test of Adult Reading (WTAR)  
Woodcock Johnson Tests of Achievement 4<sup>th</sup> Edition (WJ-IV)

## **PROFESSIONAL ASSOCIATIONS**

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2019 – Present	The Society for Clinical Neuropsychology (APA Division 40)
2019 – Present	Society for Research in Psychopathology
2018 – Present	Psi Chi Society
2018 – Present	American Psychological Association
2018 – Present	Cognitive Neuroscience Society
2018 – Present	Society for Research in Child Development
2018 – Present	American Educational Research Association
2014 – Present	National Dance Education Organization

## **PROFESSIONAL SKILLS**

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Software: R, SPSS, MATLAB-Network Based Statistics Toolbox, SPM, Research Electronic Data Capture (REDCap), Qualtrics, Open Specimen, Excel, Adobe Premiere Pro CC Video Editing Software

## **ADDITIONAL WORK EXPERIENCE**

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2014 - 2018	<b>Dance Fusion Company, Walnut Creek, CA</b> Choreographed award-winning pieces for dancers ages 7-18, taught nightly classes in various styles of dance. Also ran the social media accounts for the company
2016 - 2017	<b>Carondelet High School, Concord, CA</b> Coached high school JV and Varsity dance teams, developed training and conditioning programs. Both teams went undefeated and Varsity won two National Championship titles
2014 - 2016	<b>St. Isidore School, Danville, CA</b> Assisted in Kindergarten and Fourth grade classrooms, taught daily reading curriculum (Fountas and Pinnell), assisted children on writing, math, reading, and history assignments, choreographed school musical performances, communicated with parents and helped lead conferences. Acted as a substitute teacher
June - August 2013	<b>Galileo Summer Camp, Lafayette, CA</b> Led 4-5-year-old children through daily camp activities centered around a Science and Art curriculum
June - August 2012	<b>Skylake Yosemite Camp, Bass Lake, CA</b> Led children ages 7-15 through daily camp activities (canoeing, hiking, and crafting), acted as the lakefront lifeguard, developed community building activities for the girls' camp

- 2010 - 2012 **Loyola Marymount University Childcare Center, Los Angeles, CA**  
Assisted preschool teachers in structuring activities for children ages 1-5, led small groups of children through hands-on Science activities
- 2007 - 2010 **Summer Tutor, Danville, CA**  
Tutored children in math, writing, and reading and designed summer curriculums

## **VOLUNTEER WORK**

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- June 2019 **University High School STEM Science Camp, Champaign, IL**  
Led students in activities that taught them about careers in Psychology, research methods, and about brain and neuron functioning.
- March 2019 **Beckman Institute for Advanced Science and Technology Open House, Urbana, IL**  
Presented our lab's research to students and families from the Champaign-Urbana community. Led activities wherein we taught children about parts of the neuron and the brain and their functions
- May - August 2014 **UCSF Benioff Children's Hospital Sports Medicine Center for Young Athletes, Walnut Creek, CA**  
Observed physical therapists take assessments and perform treatments, charted and recorded physical assessment data in patients' medical records, timed patients' exercises
- January - May 2014 **Boys and Girls Club of Venice, Los Angeles, CA**  
Tutored children in high risk living environments in Math, Science, and Language Arts, wrote research papers on the experience for Psychology Capstone course
- January - May 2013 **Bookworm Project, Los Angeles, CA**  
Conducted memory training sessions with first grade students living in high-risk environments, collected data for Experimental Methods course
- 2009 - 2011 **Habitat for Humanity, Oakland and Los Angeles, CA**  
Helped build houses for families living in high-risk neighborhoods
- 2008 - 2011 **Contra Costa Interfaith Housing Coalition, Pleasant Hill, CA**  
Created and organized a weeklong dance camp for children living in transitional housing, designed curricula, taught classes, and choreographed a performance to culminate each session
- 2008 - 2010 **Monument Crisis Center, Concord, CA**  
Co-directed a student-run tutoring program for children living in high-risk communities