

BRYAN CONKLIN, M.S.C.S.

Ph.D. Candidate

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EDUCATION

Ph.D. in Complex Systems & Brain Sciences (<i>enrolled</i>) , Florida Atlantic University (FAU)	Projected Fall 2019
M.S. in Computer Science , FAU	Fall 2013
B.A. in Philosophy , FAU, Minor: Commercial Music, Inst. Honors: Cum Laude	Spring 2012
B.A. in Mathematics , FAU, Minor: Philosophy	Spring 2005

FUNDING, AWARDS & HONORS

Student Travel Award to Society for Neurosci. – Brain Institute	Fall 2017
Student Travel Award to Cognitive & Computational Neurosci. – Grad Prof. Student Assc.	Fall 2017
3 Minute Thesis 2 nd Runner Up Championship Award at FAU	Fall 2017
NIH-funded 3-week Summer Training Course in Adaptive Neurotech at Wadsworth Cntr	Summer 2017
Equipment Grant Award for GPU by NVIDIA	Spring 2017
NIH-funded 2-week Summer Training Course in fMRI at University of Michigan	Summer 2016
Dean's List	2003
University Scholars/Honors Program at FAU	2001 – 2003
Presidential Scholarship at FAU	2001 – 2005
Florida Academic Scholar / 100% Bright Futures Scholarship at FAU	2001 – 2005

MANUSCRIPTS

1. Conklin BD, Dotson NM, Salazar RF, Gray CM & Bressler SL. Delta, alpha and high gamma frequency band power in the fronto-parietal network of macaques discriminate between correct and incorrect performance of a visual working memory task. (in prep)

CONFERENCE PRESENTATIONS

1. Conklin BD, Dotson NM, Salazar RF, Gray CM & Bressler SL. (September 2017) In Search of an Objective Measure of Working Memory: Part 1. Poster presented at the 1st annual Cognitive & Computational Neuroscience meeting at Columbia University, New York City, NY.
2. Conklin BD, Dotson NM, Salazar RF, Gray CM & Bressler SL. (November 2017) In Search of an Objective Measure of Working Memory: Part 2. Poster presented at the annual Society for Neuroscience conference in Washington, D.C.
3. Conklin BD, Dotson NM, Salazar RF, Gray CM & Bressler SL. (December 2017) In Search of an Objective Measure of Working Memory: Part 2. Poster presented at the annual Neuroscience Research Day at the University of Miami in Miami, FL.

RESEARCH EXPERIENCE

EEG Group: Center for Complex Systems & Brain Sciences (CCSBS), FAU	2017 -
Member of interdisciplinary group utilizing electroencephalography recording via BrainVision's actiChamp system	
Doctoral Research: CCSBS, FAU, (research adviser: Dr. Steven L Bressler)	2015 -

Analyzing oscillatory activity in the time and frequency domains of the fronto-parietal network of rhesus macaque monkeys to identify features that track visual working memory performance

INVITED PRESENTATIONS

Guest Lecture, FAU High School

October 25th: Attention, Acetylcholine & Optogenetics

2016

Presented on the neuroscience of attention and its modulation via acetylcholine, modulated by optogenetics.

Guest Speaker, Santaluces High School

September 25th: National Honor Society Induction Ceremony

2017

Presented on the pillars of the National Honor Society (Scholarship, Service, Leadership, Character) and how they relate to life.

Guest Lecture, FAU High School

September 28th: Exploring Research

2017

Presented on the path to research. Included tips on building one's research narrative throughout an academic career.

3 Minute Thesis Competition, Championship, FAU

November: "Designing a Brain-Computer-Interface that Improves Memory"

2017

Delivered a 3-minute presentation on my thesis for a lay audience. Won 2nd runner-up. https://www.youtube.com/watch?v=rHbu9M_nLxU

Research Talk, Center for Complex Systems & Brain Sciences, FAU

February: "Brain-Computer-Interfaces (BCI): Introduction & Application to Memory"

2018

Defined BCIs and memory. Described cognitive BCI and theory behind how one could improve memory

TEACHING EXPERIENCE

[High School] BSC 4905: Neuroscience Seminar 2, FAU High School, *Instructor*

2016 -

Delivered lectures on Neuroscience topics including the following: vesicle production & circulation, receptors, dopamine, mouse models of autism, pH_i in neurons and astrocytes, sleep, memory storage, songbird vocal development, vesicles in Parkinson Disease, homeostatic retinal circuits, neuromodulatory mechanisms, perception/attention in early visual system, neuroendocrine physiology, ibogaine tx & tetrapartite synapse dynamics.

[Undergraduate] PSY 3234: Exp Design & Statistical Inference, FAU, *Teaching Asst*

2016 -

Lectured on probability, instructed students during office hours, proctored & graded exams

[Undergraduate] PSY 1012: General Psychology, FAU, *Teaching Asst*

Summer 2016

Assisted students with the course

PROFESSIONAL AFFILIATIONS

International Neural Network Society, *Member*

2017 -

BCI Society, *Member*

2017 -

Society for Neuroscience, *Member*

2016 -

PB Chapter of Society for Neuroscience, *Member*

2016 -

ACADEMIC SERVICE

Graduate Neuroscience Training Program Steering Committee of FAU, <i>Member</i>	2018
Student representative in group of tenured-faculty department heads and Brain Institute leaders to oversee recruitment, admissions & direction of program	
Neuroscience Graduate Program Workgroup of FAU, <i>Member</i>	2017
Student representative in group of tenured-faculty department heads and Brain Institute leaders to design and implement a graduate neuroscience program	
Neuroscience Student Organization of FAU, <i>Founding Member & President</i>	2016 - 2018
Graduate student researchers working to educate the community about neuroscience, fundraise for program development and advocate for research	
College of Science Graduate Association - Treasurer	2016
A registered student organization at Florida Atlantic University	

COMMUNITY SERVICE

Palm Beach (PB) Tech Association, <i>Founding Board Member & Startup Council Chair</i>	2015 - 2018
Nonprofit membership association uniting the technology industry of PB County	
PB Tech Foundation, <i>Founding Board Member & Vice President</i>	2015 - 2017
Nonprofit organization creating & maintaining co-working spaces in PB County	
Business Development Board (BDB) of PB County, Entrepreneur Task Force, <i>Member</i>	2015 -
BDB initiative aimed at entrepreneurs of Palm Beach County	
610 Clematis Homeowners Association, <i>Treasurer of the Board</i>	2015 -
HOA community – Oversee & draft \$2M budget. Helped secure \$2M loan. Analyze monthly financial statements. Ensure competitive bidding, correct invoicing & accounting principles are followed.	

PROFESSIONAL EXPERIENCE

VoxelRx – Co-Founder & COO	2016 -
Tech startup utilizing brain imaging & deep learning to improve the healthcare industry	
Zylo - Founder & CEO	2014 - 2016
App & website design studio specializing in UI/UX design and agile, cross-platform software development	
Nohvy – Co-Founder & CEO	2014 - 2015
Product design & engineering firm specializing in modeling, rendering, rapid prototyping, manufacturer sourcing & packaging design	
Millenium Home Health Care - CIO	2013 - 2014
Responsible for management of computer network, telecom, mobility, computer hardware, software, IT purchasing and contracts for offices throughout Florida, Pennsylvania and Delaware.	
Recovery Home Care - COO	2008 - 2013
Responsible for overall operations across all departments of \$13M company. Contracts, labor rates, business process mgmt, finance, purchasing, accounting (Great Plains), budgeting, audit facilitation, projections, IT management.	

Recovery Home Care – Director of IT

2006 - 2008

Responsible for creation and maintenance of computer network for offices throughout Florida, telecom and mobility management (100+ nodes), hardware and software purchasing and contract negotiation.

Florida Rehab Services - Manager

2005 - 2006

Responsible for billing, scheduling, contracting and overall operations of Medicare Part B Therapy Company