

# Daniel Pupo

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## EDUCATION

**University of South Florida** Tampa, FL  
*Doctor of Philosophy in Aging Studies* August 2019- Present

**Johns Hopkins Bloomberg School of Public Health** Baltimore, MD  
*Master of Public Health* June 2018 – May 2019  
*Certificate in Gerontology* May 2019

**Texas A&M University - Corpus Christi** Corpus Christi, TX  
*Major: Biomedical Sciences* August 2012 – May 2016  
*Minor: Psychology*

## SCIENTIFIC EXPERIENCE

**Audiology and Speech Sciences Laboratory (ASSL)** Tampa, FL  
*University of South Florida* July 2019- Present

- Studied how aspects of human motion affect hearing with Dr. David Eddins

**Cochlear Center for Hearing and Public Health** Baltimore, MD  
*Johns Hopkins University* July 2018- May 2019

- Studied the association of hearing loss and gait mechanics with Dr. Jennifer Deal, Dr. Jennifer Schrack and Dr. Frank Lin.

**Maryland Rural Health Association (MRHA)** Centreville, MD  
*Maryland Rural Health Association* July 2018- March 2019

- Created membership survey and then analyzed the demographic and survey data collected.
- Coauthored and published “Maryland Rural Health Implementation Plan”.

**Post-baccalaureate Intramural Research Training Award** Baltimore, MD  
*National Institute on Aging, National Institutes of Health* June 2016- June 2018

- Helped develop Hand and Arm Movement Monitoring System (Publication; Pupo, 2018)
- Aided in processing gait data from BLSA (Baltimore Longitudinal Study of Aging) participants
- Worked directly with Dr. Stephanie Studenski in the National Institute on Aging, Dr. Brandon Harvey of the National Institute on Drug Abuse
- Helped to develop and pilot a Motor Learning Task, which uses a bimanual based sequence to test for a learning effect in a 3T-MRI. On a team with Dr. Stephanie Studenski, Dr. Tian Qu, Dr. David Reiter and Dr. Roger Mullins
- Created the Fitts Task, a repetitive hand motion task to observe jerk and other kinematics based off of Paul Fitts’ original work from 1954 (Fitts, 1954)

**Texas A&M University Dream Chemistry Team** Corpus Christi, TX  
*Self-Assembling Monolayered (SAM) Nanocarriers* November 2015- January 2017

- Worked closely with Dr. Cesar Marquez as the team leader of the Nanocarriers team.
- Designed protocol of 6n cucurbituril synthesis using sulfuric acid in a heated aqueous solution.
- With synthesized cucurbiturils, worked on an approach to form SAM (self-assembling monolayers) on a copper surface in acidic solution.
- Using of Spartan super computer, developed a method for creating single layer SAM over free electrons off of metal surface.

**Texas A&M University Psychology Research** Corpus Christi, TX  
*Retrieval-Induced Forgetting (RIF)* August 2015- June 2016

- Assisted in the progress of a psychological based experiment under Dr. Miguel Moreno and Dr. Gina Glanc looking for the presence of the effects of Retrieval Induced Forgetting Effect.

- Composed a list of homographs and accompanying sentences to act as the experimental stimuli.
- Gained knowledge in software development using C++ programming language for Eye Tribe Eye-tracking system and OGAMA statistical software.

### **First in the World Research (FITW)**

*Supplemental Instructor (SI) Organic chemistry*

Chorus Christi, TX  
March 2015- May 2016

- Was the Supplemental Instructor for two classes of 100 Organic Chemistry students and held 6 sessions per week (3 online, 3 face-to-face) and 2 office hours/wk.
- Aided in the collection of data on attendance and how much knowledge was gained by each of the students for each face to face and online session.

### **Emergency Medicine Research Assistance Program**

*Christus Spohn Memorial Hospital*

Corpus Christi, TX  
August- December 2014

- Collected data for several two different projects that focused on emergency room medicine. The first looking at how copay levels affect emergency room attendance and the second measured lactic acid levels in severe trauma patients.

## **PUBLICATIONS**

**Pupo D, Kakareka J, Krynitsky J, Pohida T, Harvey B, Studenski S. (2018) Reliability of a Novel Video-Based Method for Assessing Age-Related Changes in Motoric Function. *Frontiers of Aging Neuroscience***

Maryland Rural Health Implementation Plan, Maryland Rural Health Association, Online, [www.mdruralhealth.org](http://www.mdruralhealth.org)

## **PRESENTATIONS**

### **Final Capstone Presentation**

Baltimore, MD

*Johns Hopkins Bloomberg School of Public Health*

- May 1<sup>st</sup>, 2019- Presented final results of hearing impairment and gait mechanics capstone research to faculty and trainees of the Center on Aging and Health (COAH).

### **Research in Progress at the Cochlear Center**

Baltimore, MD

*Johns Hopkins Bloomberg School of Public Health*

- April 3<sup>rd</sup>, 2019- Initial findings of hearing impairment and gait mechanics research to trainees and researchers in the cochlear center.

### **Cochlear Center Research Day**

Baltimore, MD

*Johns Hopkins Bloomberg School of Public Health*

- March 25<sup>th</sup>, 2019- Presented poster of hearing impairment and gait mechanics research to faculty and guests of the cochlear center.

### **Capstone Research in Progress**

Baltimore, MD

*Johns Hopkins Bloomberg School of Public Health*

- February 15<sup>th</sup>, 2019- Presented capstone research in progress to the students in the in the aging concentration and their respective mentors.

### **National Institute of Health (NIH) Post-bac Poster Day**

Bethesda, MD

*National Institutes of Health Main Campus*

- May 2<sup>nd</sup>, 2018- Presented results for the Motor-learning Project in the afternoon session of the poster-day to several hundred NIH Researchers and employees.

### **National Institute of Aging (NIA) Post- Bac Poster Day**

Baltimore, MD

*Biomedical Research Center, Johns Hopkins Bayview*

- April 30<sup>th</sup>, 2018- Presented results for the motor-learning to several hundred distinguished scientists from the National Institute of Aging and the National Institute on Drug Abuse. .

### **Research Festival National Institute of Health (NIH)**

Bethesda, MD

*National Institutes of Health Main Campus*

- September 14<sup>th</sup>, 2017- Presented results for the HAMMS at the third poster session devoted to neuroscience to a room of several hundred distinguished scientists.

### **Dr. Studenski's Weekly Lab Team Meeting in BLSA**

Baltimore, MD

*Med Star Harbor Hospital*

- October 10<sup>th</sup>, 2016- Presented HAMMS research in progress
- January 23<sup>rd</sup>, 2017 – Presented first pilot sample for Fitts' Task

**Presented at Longitudinal Study Team meeting (NIA)**

Baltimore, MD

*John Hopkins Bayview Campus Research Building*

- June 22<sup>nd</sup>, 2018- Presented work in progress to a room of two dozen colleagues from the Translational Gerontology Branch of the NIA.
- April 27<sup>th</sup>, 2018- Presented Motor-learning project to a few dozen distinguished guests of the Baltimore Longitudinal Study of Aging.
- September 30<sup>th</sup>, 2016- Presented sample of data collected in updated Fitts' Task Protocol to a room of a dozen colleagues in our weekly Longitudinal Study lab section meeting.

**Presented at Island Days**

Corpus Christi, TX

*Island Days Texas A&M University- Corpus Christi*

- November 20<sup>th</sup>, 2015- Presented results for the project looking at RIF using homographs, to a group of 100 incoming freshman and their parents.

**PROGRAMING LAUNGUAGES**

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R statistical software, STATA, E prime, MATLAB (SPM, Vicon Nexus, Motive), Linux

**WORK EXPERIENCE**

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**Introduction to Aging Studies***Teaching Assistant*

Tampa, FL

August 2019 – Present

**National Institute on Aging***Researcher*

Baltimore, MD

July 2016- July 2018

**Red Dot Pier***General employee*

Chorus Christi, TX

January 2015- March 2016

**Angleton Travel Plaza***Maintenance*

Angleton, TX

June - July 2014

**Goodwill Construction Inc.***General Construction Worker*

Angleton, TX

May - September 2013

December - February 2013

**Field Store BBQ***Assistant Manager*

Waller, TX

May 2012- September 2013

**AFFILIATIONS**

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- Cochlear Center for Hearing and Public Health
- Maryland Rural Health Institute
- Baltimore Longitudinal Study on Aging
- National Institutes of Health- National Institute on Aging/ National Institutes on Drug Abuse
- Anna Beatjer Society
- Alpha Epsilon Delta
- Golden Key Honor Society
- TAMUCC Mixed Martial Arts Club
- TAMUCC Chess Club
- International Cryptozoology Society (ICS)
- Phi Delta Theta

**CERTICATIONS**

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Johns Hopkins- Principles of fMRI

Johns Hopkins Gerontology Certificate

Johns Hopkins Fundamentals of Neuroanatomy for Neuroimaging

CPR/ AED

Basic life supports for health care providers  
NIH Clinical Human Subject Research certification  
NIH Animal Subjects Research Training  
NIH Ethics in Scientific Research Training  
NIH Information Security Training

## **VOLUNTEER**

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- Maryland Rural Health Association
- St. Catharine's Hospital
- Texas Humane Society
- Pals Animal Shelter
- Coastal Bend Dance Competition
- Christus Spohn Hospice
- Corpus Christi Museum
- Strength 2 Love

## **CITATIONS**

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Fitts, P. M. (1954). The information capacity of the human motor system in controlling the amplitude of movement. *Journal of Experimental Psychology: General*, 121(3), 262-269. doi:10.1037//0096-3445.121.3.262