

## Sicong (Zone) Liu

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### CURRENT POSITION

Postdoctoral Associate in Neuroscience 2018–Present  
Department of Psychiatry and Social Behaviors  
Duke University School of Medicine  
Advisor: L. Gregory Appelbaum, Ph.D.

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### EDUCATION

Ph.D. in Educational Psychology 2018  
Florida State University  
Concentration: Sport & Exercise Psychology  
Advisor: Gershon Tenenbaum, Ph.D.

M.S. in Measurement & Statistics 2015  
Florida State University  
Concentration: Bayesian Network  
Advisor: Russell G. Almond, Ph.D.

M.S. in Educational Psychology 2013  
Florida State University  
Concentration: Sport & Exercise Psychology  
Advisor: Robert C. Eklund, Ph.D.

B.S. in Psychology 2010  
Beijing Normal University, Zhuhai  
Advisor: Yuqiu Li, Ph.D.

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### GRANTS & AWARDS

#### Extramural Research Grants

1. Appelbaum, L. G. (2020). *Transcranial Direct Current Stimulation to Enhance Laparoscopic Technical Skill Acquisition*. National Institute of Health (NIH), Bioengineering Research Grants (BRG) R01 [PAR-19-159]. Amount Requested: \$2,367,907. **Role:** Co-I. Pending.
2. Appelbaum, L. G. (2018-2020). *Sensorimotor function in elite soldiers and athletes*. United State Army Research Office [W911NF-15-1-0390]. Amount Requested: \$520,725. **Role:** Postdoctoral Fellow.
3. Tenenbaum, G. (2017). *Training to improve law enforcement officers' decision-making*. National Institute of Justice Research, Evaluation, and Development Project Grants [NIJ-2017-11500]. Budge Requested:

\$1,638,382. **Role:** Co-I (30%). Not funded.

4. **Liu, S.** (2017). *Thought suppression paradox in student athletes and its intervention*. American Psychological Association (APA), APA Dissertation Research Award. Amount Requested: \$3078. **Role:** PI. Not funded.
5. **Liu, S.** (2017). *Thought suppression paradox in student athletes*. North American Society for the Psychology of Sport and Physical Activity (NASPSPA), Research Grant. Amount Requested: \$1998. **Role:** PI. Not funded.
6. **Liu, S.** (2017). *Thought suppression paradox in student athletes and its intervention*. Association for Applied Sport Psychology (AASP), Research Seed Grant. Awarded: \$500. **Role:** PI.
7. **Liu, S.** (2016). *Thought suppression paradox in student athletes and its intervention*. National Collegiate Athletic Association (NCAA), NCAA Graduate Student Research Grant. Amount requested: \$7500. **Role:** PI. Not funded.
8. **Liu, S., Tenenbaum, G., Boiangin, N.** (2015). *Ironic or Overcompensating Error in Golf Putting: Testing Attention Imbalance and its Implementation*. Association for Applied Sport Psychology (AASP), Research Grant. Awarded: \$2700. **Role:** PI.

#### **Intramural Grants**

1. **Liu, S.** (2017). *Thought suppression paradox in student athletes and its intervention*. Florida State University, Graduate School, Dissertation Research Grant (Top-Tier). Awarded: \$1000. **Role:** PI.
2. **Liu, S.** (2016-2017). *Thought suppression paradox in student athletes and its intervention*. Florida State University, Undergraduate Research Opportunity Program (UROP), Research Material Grant. Awarded: \$500. **Role:** PI.
3. Jeffery, K., **Liu, S.**, Basevitch, I., Filho, E., & Boiangin, N. (2012). *SPEAR conference at Tallahassee*. Florida State University, Congress of Graduate Students (COGS), Student Organization Grant. Awarded: \$5000. **Role:** Co-applicant (20%).

#### **Awards**

1. **Finalist.** (2020). Army Research Laboratory Distinguished Postdoctoral Fellowship. U.S. Army Research Laboratory (ARL). Award Pending.
  2. **First Prize.** (2015). *A critical view on the notion that exercise improves cognition*. Awarded in the Conference Submission Competition of the International Forum of Sport Psychology, Hangzhou, Zhejiang, China.
  3. **Presidential University Fellowship.** (2010-2014). Academic Scholarship Awarded by the Graduate School of Florida State University. Award Value: \$160,000.
  4. **Dean of Graduate School.** (2010). Academic Scholarship Awarded by the Graduate School of Florida State University. Award Value: \$1000.
  5. **Champion.** (2006-2010). *400m running*. Athletic Awards in the Annual Sports Meetings of the College of Education at the Beijing Normal University, Zhuhai.
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**RESEARCH**

Registered with:

Google Scholar

<http://scholar.google.com>

ORCID

<http://orcid.org>

Research Gate

<http://researchgate.net>**Refereed Journal Articles**

1. **Liu, S.**, Ferris, L. M., Hilbig, S., Asamoá, E., LaRue, J., Lyon, D. W., Port, N., Appelbaum, L. G. (In Press). *Dynamic vision training transfers positively to batting performance among collegiate baseball batters*. *Psychology of Sport and Exercise*. Preprint at bioRxiv 2020.02.12.945824
2. Gamboa Arana, O. L., Palmer, H., Dannhauer, M., Hile, C., **Liu, S.**, Hamdan, R., Brito, A., Cabeza, R., Davis, S. W., Peterchev, A. V., Sommer, M. A., Appelbaum, L. G. (Accepted) *Dose-dependent enhancement of motion direction discrimination with transcranial magnetic stimulation of visual cortex*. *Neuropsychologia*. Preprint at bioRxiv 2020.06.14.151118
3. **Liu, S.**, Edmunds, F., Burris, K., & Appelbaum, G. L. (2020). Visual and oculomotor abilities contribute to batting performance among professional baseball players. *International Journal of Performance Analysis in Sport*, 20(4), 683-700. doi: 10.1080/24748668.2020.1777819
4. Gamboa Arana, O. L., Brito, A., Abzug, Z., D'Arbeloff, T., Beynel, L., Wing, E. A., Dannhauer, M., Palmer, H., Hilbig, S. A., Crowell, C. A., **Liu, S.**, Donaldson, R., Cabeza, R., Davis, S. W., Peterchev, A. V., Sommer, M. A., & Appelbaum, L. G. (2020). Application of long-interval paired-pulse transcranial magnetic stimulation to motion-sensitive visual cortex does not lead to changes in motion discrimination. *Neuroscience Letters*, 730, 135022. doi: 10.1016/j.neulet.2020.135022
5. Burris, K., **Liu, S.**, & Appelbaum, L. G. (2019) Visual-motor expertise in athletes: Insights from semiparametric modeling of 2317 athletes tested on the Nike Sensory Station. *Journal of Sports Sciences*, 38(3), 320-329. doi: 10.1080/02640414.2019.1698090
6. **Liu, S.**, Boiangin, N., Meir, G., Shaffer, K. A., Lebeau, J.-C., Basevitch, I., & Tenenbaum, G. (2019). Ironic and overcompensating processes under avoidance instructions in motor tasks: An attention imbalance model with golf-putting evidence. *Journal of Experimental Psychology: Human Perception and Performance*, 45(12), 1596–1613. doi: 10.1037/xhp0000688
7. Song, T.-F., Chen, F.-T., Chu, C.-H., Lin, C., **Liu, S.**, & Chang, Y.-K. (2017). Obesity and cardiovascular fitness associated with inhibition of executive function: An ERP study. *Physical Education Journal*, 50(1), 43-56. doi: 10.3966/102472972017035001004
8. **Liu, S.**, Ritchie, J., Sáenz-Moncaleano, C., Ward, S. K., Paulsen, C., Klein, T., Gutierrez, O., & Tenenbaum, G. (2017). 3D technology of Sony Bloggie does not benefit decision-making of tennis serve direction: A randomized placebo-controlled study. *European Journal of Sport Science*, 17(5), 603-610. doi: 10.1080/17461391.2017.1301561
9. Lebeau, J.-C., **Liu, S.**, Sáenz-Moncaleano, C., Sanduvete-Chaves, S., Chacón-Moscoso, S., Becker, B. J., & Tenenbaum, G. (2016). Quiet eye and performance in sport: A meta-analysis. *Journal of Sport & Exercise Psychology*, 38(5), 441-457. doi: 10.1123/jsep.2015-0123
10. **Liu, S.**, Lebeau, J.-C., & Tenenbaum, G. (2016). Does exercise improve cognitive performance? A

conservative message from Lord's paradox. *Frontiers in Psychology*, 7: 1092. doi: 10.3389/fpsyg.2016.01092

11. Hu, G, **Liu, S.**, & Xu, B. (2016). An experimental study on the robust golf-putting performance under distracting situation from analogy motor learning. *Chinese Journal of Applied Psychology*, 22(2), 137-144.
12. **Liu, S.**, Eklund, R. C., & Tenenbaum, G. (2015). Time pressure and attention allocation effect on upper limb motion steadiness. *Journal of Motor Behavior*, 47(4), 271-281. doi: 10.1080/00222895.2014.977764

### Chapters

1. **Liu, S.** & Tenenbaum, G. (2018). Research methods in sport and exercise psychology. In Oxford Research Encyclopedia of Psychology. Oxford University Press. doi: 10.1093/acrefore/9780190236557.013.224

### Manuscript Under Review/Revision

1. **Liu, S.**, Donaldson, R., Subramaniam, A., Palmer, H., Champion, C. D., Cox, M., & Appelbaum, L. G. *Skill acquisition and gaze behavior during laparoscopic surgical simulation*. Surgery. Preprint at bioRxiv 2020.07.17.206763
2. **Liu, S.**, Folstein, J. R., Appelbaum, L. G., & Tenenbaum, G. *Effects of control strategy on the activation of unwanted intrusive thoughts*. Journal of Experimental Psychology: General. Preprint at psyArXiv. doi: 10.31234/osf.io/rb24j
3. Clements, J. M., **Liu, S.**, Kirsch, E. P., Rao, H. M., Zielinski, D. J., Lu, Y., Mainsah, B. O., Potter, N. D., Sommer, M. A., Kopper, R., & Appelbaum, L. G. *Simulation Neuroscience: Predictive biomarkers and psychophysiological learning during simulated marksmanship in immersive virtual reality*. Journal of Cognitive Neuroscience. (Under Revision)
4. Donaldson R., **Liu, S.**, & Appelbaum, L. G. *Can electricity help surgeons' brains learn faster?* Frontiers for Young Minds.

### Manuscripts in Preparation

1. **Liu, S.**, Lin, Z., & Piekarewicz, A. Predicting disordered eating behaviors among female distance runners: A Bayes net approach.
2. **Liu, S.**, Asamo, E., Hilbig, S. H., & Appelbaum, L. G. Psychophysiological markers of temporal anticipation in proximal and distal object tracking.
3. **Liu, S.**, Folstein, J. R., Boot, W., Appelbaum, L. G., & Tenenbaum, G. Individual differences in unwanted intrusive thought control, working memory capacity, fluid intelligence, and academic achievements in NCAA D1 athletes.

### Technical (Psychometric) Reports

1. Schoen, R. C., Yang, X., **Liu, S.**, & Paek, I. (2018). *Psychometric report on the Knowledge for Teaching Elementary Fractions test administered to elementary educators in six states in fall 2016*. (Research Report No. 2018-12.) Tallahassee, FL: Learning Systems Institute, Florida State University. doi: 10.17125/fsu.1531453537

2. Schoen, C. R., **Liu, S.**, Yang, X., & Paek, I. (2017). *Psychometric report on the Early Fraction Test administered to the third- and forth-grade Students in fall 2016*. (Research Report No. 2017-10.) Tallahassee, FL: Learning Systems Institute, Florida State University. doi: 10.17125/fsu.1512509662
3. Schoen, C. R., Yang, X., **Liu, S.**, & Paek, I. (2017). *Psychometric report on the Early Fractions Test (Version 2.2) administered to third- and fourth-grade students in spring 2017*. (Research Report No. 2017-11.) Tallahassee, FL: Learning Systems Institute, Florida State University. doi: 10.17125/fsu.1522698235

### **Trial Pre-Registrations & Open Data**

1. **Liu, S.**, Folstein, J., Appelbaum, L. G., & Tenenbaum, G. (2019, August 28). The mechanism of controlling unwanted intrusive thoughts. Retrieved from [osf.io/ydmsv](https://osf.io/ydmsv)
2. **Liu, S.**, Boiangin, N., Meir, G., Cologgi, K., Lebeau, J.-C., Basevitch, I., & Tenenbaum, G. (2019, June 1). Ironic and overcompensating processes under avoidance instructions in motor tasks. doi: 10.17605/OSF.IO/D9RXE
3. Appelbaum, L. G., **Liu, S.**, Hilbig, S., Rankin, K., Naclario, M., Asamo, E., ... Burriss, K. (2018, September 28). Sports vision training in collegiate baseball batters. doi: 10.17605/OSF.IO/496RX

### **Popular Press Interviews**

1. Weir, K. (March, 2019). The athletic brain: The Sport & Exercise Psychology Lab at Florida State University takes an in-depth look at athletes' cognitive processes. *Monitor on Psychology*, 50(3), 56-59. <https://www.apa.org/monitor/2019/03/athletic-brain>

### **Conference Papers**

1. Sanduvete-Chaves, S., Chacón-Moscoso, S., Lebeau, J.-C., **Liu, S.**, Sáenz-Moncaleano, C., Becker, B. J. & Tenenbaum, G. (2015, July). Methodological quality effect in meta-analyses: The case of the quiet eye period duration-motor performance relations. Invited paper at the symposium Advances in meta-analysis, coordinated by Julio Sánchez-Meca. XIV Congreso de Metodología de las Ciencias Sociales y de la Salud [XIV Congress of Methodology in Health and Social Sciences]. Mallorca, Spain.
2. Turner, J. E., Summers, J. J., **Liu, S.**, & Almond, R. G. (2015, April). Investigating students' emotional dynamics in group-work. In C. Fong and D. Schallert (Co-Chairs), "What is this feeling" The wickedly complex workings of achievement emotions in diverse learning situations. Paper presented in the symposium at the annual conference of the American Educational Research Association (AERA), Chicago, IL.
3. Summers, J., Turner, J. E., & **Liu, S.** (2014, April). Group processes in college classroom: A control-value theory framework. Paper presented at the annual conference of the American Educational Research Association (AERA), Philadelphia, PA.

### **Verbal Presentations in Conferences**

1. Sommer, M., Appelbaum, L.G., Cabeza, R., Davis, S., Peterchev, A., Gamboa-Arana, O-L., Brito, A., Camalier, C. R., Crowell, C.A., Dannhauer, M., D'Arbeloff, T., Hamdan, R., Hile, C., Hilbig, S., Palmer, H., **Liu, S.**, & Wang, F. (2020, May). *Impact of Timing, Targeting, and Brain State on rTMS of Human and Non-Human Primates*. BRAIN Initiative Investigators Meeting, Washington DC.
2. Ferris, L. M., **Liu, S.**, Port, N. L., & Appelbaum, L. G. (2019, August). *Enhancing performance through vision: Sports vision training in collegiate baseball hitters*. Verbal presentation at the annual conference of Military Health System Research Symposium (MHSRS), Kissimmee, FL.

3. **Liu, S.**, Folstein, J. R., Appelbaum, L. G., & Tenenbaum, G. (2019, June). *Time, control strategy, and working memory capacity affect thinking a recalled experience of choking under pressure in student athletes*. Verbal presentation at the annual conference of the North American Society for the Psychology of Sport and Physical Activity (NASPSPA), Baltimore, MD.
4. **Liu, S.**, Meir, G., Boiangin, N., Cologgi, K., Lebeau, J.-C., Basevitch, I., & Tenenbaum, G. (2017, June). *Ironic or overcompensating error in golf putting: The importance of attention imbalance (Study 1 & 2)*. Verbal presentation at the annual conference of the North American Society for the Psychology of Sport and Physical Activity (NASPSPA), San Diego, CA.
5. **Liu, S.**, Meir, G., Boiangin, N., Cologgi, K., Lebeau, J.-C., Basevitch, I., & Tenenbaum, G. (2016, October). *Ironic or overcompensating error in golf putting: An exploration of moderators (Study 1)*. Verbal presentation at the annual conference of the Association of Applied Sport Psychology (AASP), Phoenix, AZ.
6. **Liu, S.**, Lebeau, J.-C., & Tenenbaum, G. (2016, June). *A critical view on the notion that exercise improves cognition*. Verbal presentation at the annual conference of the North American Society for the Psychology of Sport and Physical Activity (NASPSPA), Montreal, Canada.
7. Turner, J. E., Summers, J. J., **Liu, S.**, & Almond, R. G. (2015, April). *Investigating students' emotional dynamics in group-work*. Verbal presentation at the annual conference of Marvalene Hughes Research in Education Conference, Tallahassee, FL.
8. Turner, J. E., Summers, J. J., **Liu, S.**, & Almond, R. G. (2015, April). *Investigating students' emotional dynamics in group-work*. In Carlton Fong and Diane Schallert (Co-Chairs), "What is this feeling" The wickedly complex workings of achievement emotions in diverse learning situations. Symposium conducted at the annual conference of the American Educational Research Association (AERA), Chicago, IL.
9. **Liu, S.**, Meir, G., & Gutierrez, O. (2015, February). *Captain selection of a NAIA male soccer team: A qualitative study of what makes a good leader from the perspectives of coaches, athletes, and sports psychology consultants*. Verbal presentation at the annual conference of Sport Psychology Organization and Research Team (SPEAR), Tallahassee, FL.
10. Meir, G. & **Liu, S.** (2014, February). *Contextual interference effect demystified: a hierarchical analysis of motor learning and transfer in older adults*. Verbal presentation at the annual conference of Sport Psychology Organization and Research Team (SPEAR), Tallahassee, FL.
11. **Liu, S.**, & Eklund, R. C. (2013, July). *A source of choking under pressure: The ironic effect of self-talk in a hand motion steadiness task*. Verbal presentation at annual conference of the North American Society for the Psychology of Sport and Physical Activity (NASPSPA), New Orleans, LA.

#### **Posters in Conferences**

1. Scott, M., Ho, J., Lichtenstein, J., Potter, A., Nguyen, P., **Liu, S.**, & Appelbaum, L. G. (2020, August). Predicting baseball performance. Duke Data+ summer program and Rhodes information initiative, Durham, NC.
2. **Liu, S.**, Ferris, L. M., Hilbig, S., Asamoah, E., Port, N. L., & Appelbaum, L. G. (2020, June). *Dynamic vision training transfers positively to batting performance among collegiate baseball batters*. Poster at the annual meeting of American College of Sports Medicine (ACSM), San Francisco, CA. (ePoster in

virtual conference due to COVID-19)

3. Edmunds, F. R., **Liu, S.**, Appelbaum, L. G. (2019, October). *Predictive assessments in hitting performance in professional baseball*. Poster presentation at the 3<sup>rd</sup> World Congress of Optometry, Orlando, FL.
4. Asamoia, E., **Liu, S.**, Appelbaum, L. G. (2019, July). *The impact of vision training on baseball performance and brain responses as measured by EEG*. Poster presentation at the Duke Summer Undergraduate Research Showcase, Durham, NC.
5. **Liu, S.**, Folstein, J. R., Appelbaum, L. G., & Tenenbaum, G. (2019, February). *Time, control strategy, and working memory capacity affect thinking an aversive autobiographical memory*. Poster presentation at the annual Duke Institute for Brain Sciences (DIBS) Distinguished Lecture and Symposium, Durham, NC.
6. Gracyalny, M, Huang, Y., Porta, I., & **Liu, S.** (2018, April). *Thought suppression paradox in student athletes*. Poster presentation at the Undergraduate Research Opportunity Program (UROP) of the Florida State University, Tallahassee, FL.
7. Yang, X., Paek, I., **Liu, S.** & Scheon, R. C. (2017, November). *An Empirical Investigation of the Effects of Testlets on Psychometric Properties in the Student Fraction Questions Test*. Poster presentation at the Florida Educational Research Association (FERA), Cocoa Beach, FL.
8. Boiangin, N., Meir, G., Lebeau, J.C., Basevitch, I., Todd, C., **Liu, S.**, Cologgi, K., & Tenenbaum, G. (2017, July). *Ironic or overcompensating error in golf putting: The importance of attention imbalance*. Poster presentation at the International Society of Sport Psychology 14th World Congress (ISSP), Sevilla, Spain.
9. Burden, V., Carr, A., Rogers, A., Onafraychuk, D., & **Liu, S.** (2017, April). *Thought suppression paradox in student athletes*. Poster presentation at the Undergraduate Research Opportunity Program (UROP) of the Florida State University, Tallahassee, FL.
10. **Liu, S.**, Meir, G., Boiangin, N., Cologgi, K., Lebeau, J.-C., Basevitch, I., & Tenenbaum, G. (2017, April). *Ironic or overcompensating error in golf putting: An exploration of moderators*. Poster presentation at the annual conference of Marvalene Hughes Research in Education Conference, Tallahassee, FL.
11. Saenz-Moncaleano, C., **Liu, S.**, Lebeau, J.-C., Becker, B. J. & Tenenbaum, G. (2016, April). *Quiet eye training for performance enhancement in sports: A meta-analysis*. Poster presentation at the annual conference of Marvalene Hughes Research in Education Conference, Tallahassee, FL.
12. **Liu, S.**, Lebeau, J.-C., & Tenenbaum, G. (2016, April). *A critical view on the notion that exercise improves cognition*. Poster presentation at the annul conference of Marvalene Hughes Research in Education Conference, Tallahassee, FL.
13. Charalambous, C., & **Liu, S.** (2016, April). *Sport psychology used to correct performance errors*. Poster presentation at the Florida State University Department of Psychology Undergraduate Research Day, Tallahassee, FL.
14. Hu, G.-Y., **Liu, S.**, Aroni, A. L., Gutierrez, O., & Wang, Y. (2015, September). *Implicit learning of golf-putting among Chinese collegiate students: An analogy approach*. Poster presented at the annual

international conference of Congresso Internacional de Psicologia do Esporte, Desenvolvimento Humano e Tecnologias, Rio Claro/SP, Brazil.

15. Saenz-Moncaleano, C., **Liu, S.**, Lebeau, J.-C., Sanduvete-Chaves, S., Chacon-Moscoso, S., Tenenbaum, G., & Becker, B. J. (2015, July). *Quiet eye training for performance enhancement in sports: A meta-analysis*. Poster presentation at the annual conference of European Federation of Sport Psychology (FEPSAC), Bern, Switzerland.
16. Ward, S., Saenz-Moncaleano, C., **Liu, S.**, Ritchie, J., Klein, T., Gutierrez, O., Paulsen, C., & Tenenbaum, G. (2015, July). *Comparing 2D & 3D video technologies in eliciting anticipatory decisions and affective responses in tennis*. Poster presentation at the annual conference of European Federation of Sport Psychology (FEPSAC), Bern, Switzerland.
17. Lebeau, J.-C., **Liu, S.**, Saenz-Moncaleano, C., Sanduvete-Chaves, S., Chacon-Moscoso, S., Becker, B. J., & Tenenbaum, G. (2015, June). *Quiet eye period and performance in sport: A meta-analysis*. Poster presentation at the annual conference of North American Society for Psychology of Sport and Physical Activity (NASPSA), Portland, OR.
18. **Liu, S.**, Lin, Z., & Piekarewicz, A. (2015, April). *Predicting disordered eating behaviors among female distance runners: A Bayesian network approach*. Poster presentation at the annual conference of Marvalene Hughes Research in Education Conference, Tallahassee, FL.
19. Lebeau, J. C., **Liu, S.**, Saenz-Moncaleano, C., Sanduvete-Chaves, S., Chacon-Moscoso, S., Becker, B., & Tenenbaum, G. (2015, April). *Quiet eye period and performance in sport: A meta-analysis*. Poster presentation at the annual conference of Marvalene Hughes Research in Education Conference, Tallahassee, FL.
20. **Liu, S.**, Richie, J., Saenz, C., Ward, S., Paulsen, C., Klein, T., Gutierrez, O., Basevitch, I., & Tenenbaum, G. (2014, October). *A comparison between 2D and 3D simulation of tennis serves: could new technology enhance tennis players' cognitive and emotional processes during the simulation?* Poster presentation at the annual conference of Association of Applied Sport Psychology (AASP), Las Vegas, NV.
21. **Liu, S.**, & Eklund, R. C. (2013, August). *A source of choking under pressure: the ironic effect of self-talk in a hand motion steadiness task*. Poster presentation at the 13th world congress of the International Society of Sport Psychology (ISSP), Beijing, China.

### Research Assistantships

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|---|-----------|
| 1. Dr. Robert C. Schoen, Learning Systems Institute, FSU<br><i>Performing IRT-based test equating &amp; scoring for math education datasets and writing psychometric reports.</i> | 2017-2018 |
| 2. Dr. Jeannine E. Turner, College of Education, FSU<br><i>Modeling datasets of group emotion dynamics in classrooms.</i>   | 2011-2013 |

## TEACHING & MENTORING

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|--|-----------|
| <b>Sole Instructor of Undergraduate Courses: Evaluation</b><br>College of Education, FSU<br>APK 4401 Exercise Psychology (Fall 2015, Fall 2016-Spring 2017): 4.37/5.00<br>EDF 4430 Classroom Assessment (Fall 2015-Spring 2016): 4.39/5.00 | 2014-2017 |
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EDF 4210 *Online* Educational Psychology (Summer 2015): 4.25/5.00  
EDF 4210 Educational Psychology (Fall 2014-Spring 2015): 4.33/5.00  
APK 4400 Sports Psychology (Summer 2014): 4.86/5.00

**Guest Lecturer for Other Instructors' Courses**

2014-2017

College of Education, FSU

*Graduate Level*

EDF 5400 Descriptive/Inferential Statistics Application  
EDP 5935 Topics in Educational Psychology

*Undergraduate Level*

EDF 4210 Educational Psychology  
EDF 4430 Classroom Assessment  
APK 4401 Exercise Psychology  
APK 4400 Sport Psychology

**Mentoring**

Honors Thesis Committee Member, Duke University

2019

*Shailen Parmar* (Class of 2022) - Ongoing  
*Ashwin Subramaniam* (Class of 2022) - Ongoing  
*Jessica Ho* (Class of 2022) - Ongoing  
*Edem Asamoah* (Class of 2021) - Ongoing  
*Rachel Donaldson* (Class of 2020) - Outstanding Senior Thesis nominee  
*Erikson Nichols* (Class of 2020) - Graduated

Undergraduate Research Opportunity Program (UROP), FSU

2016-2018

*Clara A. Simmons, Vanessa M. Burden, Wesley W. Leonard*  
*Daniel C. Onafraychuk, Alyssa M. Rogers, Isis Porta*  
*Yantong Huang, McKenzie R. Gracyalny, Ryan M. Moodoyan*

**Invited Campus Talks**

Department of Kinesiology, University of North Carolina Greensboro

2020

*Sensorimotor and psychophysiological approaches to optimizing human movement*

Works-in-Progress Seminar (WIPS) Series, Duke University

2019

*Optimizing in human movement: Understanding pitfalls and innovating training*

College of Education, FSU

2015

*Optimizing in human movement: Understanding pitfalls and innovating training*

*Formative assessment in education*

*Bayesian statistics & R graphics*

*Teaching philosophy*

**Project-Based Instructing Experiences**

School of Medicine, Duke University

2019-Present

*Multiple Imputation*  
*Generalized Additive Mixed Models (GAMMs)*  
*Eye-tracking data collection and processing*  
*EEG data collection and processing*  
*Statistical analysis*

College of Education, FSU

2017

*EEG data collection and processing*

**Private Instructing Experiences**

Neuromotor Exercise

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## PROFESSIONAL DEVELOPMENT

- |    |  |      |
|----|--|------|
| 1. | Summer School in Social Neuroscience and Neuroeconomics, Duke University   | 2020 |
| 2. | Tobii Eye-Tracking for Research, University of North Carolina, Chapel Hill | 2019 |
| 3. | Machine Learning in Neuroscience, Duke University                          | 2019 |
| 4. | Basic MRI Safety Training to Prevent Accidents and Injuries, Level 1       | 2016 |
| 5. | Online Mentor Training Certificate, FSU                                    | 2015 |
| 6. | Massive Open Online Course Certificates, Santa Fe Institute                | 2014 |
|    | <i>Introduction to Complexity</i>  |      |
|    | <i>Nonlinear Dynamics: Mathematical &amp; Computational Approaches</i>     |      |
| 7. | Program for Instructional Excellence Certificate, FSU                      | 2013 |
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## SERVICE

### Ad-hoc Journal Reviewing

NeuroImage  
 Sports Medicine  
 Sports Medicine – Open  
 PLOS ONE  
 Virtual Reality  
 Journal of Sport and Exercise Psychology  
 Journal of Experimental Psychology: Applied  
 European Journal of Sports Science  
 Journal of Sports Science & Medicine  
 Sport, Exercise, Performance Psychology  
 International Journal of Sports Physiology and Performance  
 Canadian Journal of Behavioral Science  
 International Journal of Applied Sports Sciences  
 International Journal of Sport Psychology

### Athletics Service

Visual-motor skill screening	2018-2019
Duke Men's Basketball	
Duke Baseball	
Sport psychology consultation	2012-2016
FSU Men's tennis (Ref.: Dwayne E. Hultquist)	
Local NAIA D1 male soccer	
Sport psychology workshops	2011-2016
FSU Men's tennis (Ref.: Dwayne E. Hultquist)	
Local NAIA D1 men's soccer	
Local club bowling	
Applied service supervision (for graduate students)	2017

### University Service

Transcranial Magnetic Stimulation (TMS) fellowship program, Duke	2020
Accelerated STEM Academy (high school summer camp), Duke	2019

Faculty search committee, FSU	2017
FSU Fellows Society representative in alumni events	2013
Sport Psychology Organization & Research Team (SPORT), Vice President	2012
Sport Professionals' Experience & Research (SPEAR), conference organizer	2012

### **Professional Membership**

American Association for the Advancement of Science (AAAS)  
American College of Sports Medicine (ACSM)  
American Psychological Association (APA)  
North American Society for the Psychology of Sport and Physical Activity (NASPSPA)  
International Society of Sport Psychology (ISSP)

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## **LANGUAGES & SKILLS**

**Language:** Proficient in English and native in Mandarin

**Statistics:** R, BUGS, Netica, Mplus, flexMIRT, HLM, IRTPRO, LISREL, G\*Power, JASP, SPSS

**Programming:** R, MATLAB (e.g., EEGLAB/ERPLAB, Psychtoolbox-3, Motion Analysis), Git & GitHub,  
LaTeX (e.g., Overleaf), Python (e.g., OpenSesame), Brain Products (e.g., Recorder, Analyzer)

**Eye-tracking:** Argus (e.g., ETMobile), Tobii (e.g., Spectrum/Nano)

Final Cut, Adobe (Acrobat, Illustrator, Photoshop)

Yang-Style Tai Chi