

Van Rynald T. Licalde

COGNITIVE AND DATA SCIENTIST

Nashville, TN, USA

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Employment

Postdoctoral Researcher

VANDERBILT UNIVERSITY, PEABODY COLLEGE

Advisors: Duane G. Watson, PhD and Emily Phillips-Galloway, EdD

Nashville, TN

Present

Collegiate Associate (Researcher)

EDUCATIONAL TESTING SERVICE, NATURAL LANGUAGE PROCESSING TEAM

Princeton, NJ

2017-2020

Administrative Assistant

ST. LOUIS LANGUAGE IMMERSION SCHOOLS, SPANISH SCHOOL

St. Louis, MO

2012-2014

Education

PhD Cognitive Psychology (Formal concentration in quantitative psychology)

UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL

An algorithm for classifying mislocated first-pass fixations in reading

Advisor: Peter C. Gordon, PhD

Chapel Hill, NC

2021

MA Cognitive Psychology

UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL

Consequences of power transformations in linear mixed-effects models of chronometric data

Advisor: Peter C. Gordon, PhD

Chapel Hill, NC

2018

BS Psychology (Honors), BA Philosophy

SAINT LOUIS UNIVERSITY

Summa cum laude

St. Louis, MO

2014

ATENEO DE MANILA UNIVERSITY

Quezon City, Philippines

2009-2010

Honors and Awards

- 2021 **Honorable mention for Innovation in Equity and Inclusivity Service Award;** DEPT OF PSYCH AND NEURO; UNC-CHAPEL HILL, NC
- 2020 **Diller-Gilligan Summer Research Fellowship;** THE GRADUATE SCHOOL; UNC-CHAPEL HILL, NC
- 2019 **Departmental Undergraduate Teaching Commendation;** DEPT OF PSYCHOLOGY AND NEUROSCIENCE; UNC-CHAPEL HILL, NC
- Dashiell Student Travel Award;** DEPT OF PSYCHOLOGY AND NEUROSCIENCE; UNC-CHAPEL HILL, NC
- 2017 **J. Frank Yates Student Conference Award;** PSYCHONOMIC SOCIETY
- 2014 **James D. Collins Award for Excellence in Student Academic Achievement (Psychology);** COLLEGE OF ARTS AND SCIENCES; SLU, MO
- Psi Chi Research Award;** PSI CHI (HONOR SOCIETY IN PSYCHOLOGY); SLU, MO
- Dean's List (for 9 semesters);** SAINT LOUIS UNIVERSITY, MO
- Saint Louis University Mission Grant;** CAMPUS MINISTRY; SLU, MO
- 2013 **Knoedler Undergraduate Research Fund;** COLLEGE OF ARTS AND SCIENCES; SLU, MO
- 2012 **Great Lakes National Scholarship Award;** GREAT LAKES EDUCATIONAL LOAN SERVICES
- 2011 **Daniel A. Navarro Memorial Award;** FILIPINO-AMERICAN ASSOCIATION OF MISSOURI IN ST. LOUIS, MO
- Jesuit Transfer Scholarship;** SAINT LOUIS UNIVERSITY, MO

Research

US Engagement (Marwood Group)

GRADUATE RESEARCH INTERN, DATA ANALYTICS TEAM

New York, NY

2021

Educational Testing Service

GRADUATE RESEARCH INTERN, NATURAL LANGUAGE PROCESSING TEAM

Princeton, NJ

2017

Saint Louis University

RESEARCH ASSISTANT

- 2012-2014 Cognitive Neuroscience of Stress Laboratory; Advisor: Tony W. Buchanan, PhD
- 2012-2013 Applied Self-Control Laboratory; Advisor: Brandon Smit, PhD

St. Louis, MO

2012-2014

University of South Carolina

RESEARCH INTERN, NSF SUMMER RESEARCH EXPERIENCE IN BRAIN AND COGNITIVE SCIENCES

Advisor: Fernanda Ferreira, PhD

Columbia, SC

2013

Colorado State University

RESEARCH INTERN, NSF RESEARCH EXPERIENCE FOR UNDERGRADUATES: SUMMER PROGRAM ON MIND AND BRAIN

Advisor: Matthew G. Rhodes, PhD

Fort Collins, CO

2012

Preprints

1. **Licalde, V.R.T.** & Gordon, P.C. *Consequences of power transformations as a statistical solution in linear mixed-effects models of chronometric data.* <https://doi.org/10.31234/osf.io/f73mh>

Manuscripts

1. **Licalde, V.R.T.**, Loukina, A., Beigman Klebanov, B., & Lockwood, J.R. (2021). Beyond text complexity: Production-related sources of text based variability in oral reading fluency. *Journal of Educational Psychology*.
2. Sitzman, D.M., Rhodes, M.G., Tauber, S.K., & **Licalde, V.R.T.** (2015). The role of prior knowledge in error correction for younger and older adults. *Aging, Neuropsychology, and Cognition*, 22(4), 502-516.

Conference Proceedings

1. Beigman Klebanov, B., Loukina, A., Lockwood, J.R., **Licalde, V.R.T.**, Sabatini, J., Madnani, N., Gyawali, B., Wang, Z., & Lentini, J. (2020). Detecting learning in noisy data: The case of oral reading fluency. In *Proceedings of the 10th International Conference on Learning Analytics and Knowledge (LAK '20)*. Frankfurt, Germany.
2. Loukina, A., **Licalde, V.R.T.**, & Beigman Klebanov, B. (2018). Towards understanding text factors in oral reading. In *Proceedings of the Human Language Technology Conference of the North American Association of Computational Linguistics (HLT-NAACL)*. New Orleans, LA. [PDF](#)

Products

1. Loukina, A., Beigman Klebanov, B., Sabatini, J., & **Licalde, V.R.T.** Systems and methods for evaluating and selecting reading passages for oral reading fluency assessment. US Patent application 16/045,112, Docket No. 011948-1456-999 filed on 25 July 2018.

Presentations

1. **Licalde, V.R.T.** & Gordon, P.C. (March 2020). *Estimating the semantic properties of words using mean ratings may be misleading.* Poster presented at the 33rd CUNY Conference on Human Sentence Processing, Amherst, MA.
2. **Licalde, V.R.T.**, Beigman Klebanov, B., Loukina, A., & Lockwood, J.R. (April 2019). *Measuring the effect of textual features on children's oral reading performance.* Paper presented at the 2019 National Council on Measurement in Education Annual Meeting. Toronto, ON, Canada.
3. **Licalde, V.R.T.** & Gordon, P.C. (March 2018). *Power transforms distort interaction patterns in mixed-effects analyses of chronometric data.* Poster presented at the 31st CUNY Conference on Human Sentence Processing. Davis, CA.
4. **Licalde, V.R.T.** & Gordon, P.C. (February 2018). *Power transforms distort interaction patterns in mixed-effects analyses of chronometric data.* Paper presented at the 2018 North Carolina Cognition Conference. Chapel Hill, NC.

5. **Licalalde, V.R.T.** & Gordon, P.C. (November 2017). *Consequences of power transformations on trial-level analyses of chronometric data*. Poster presented at the 58th Annual Meeting of the Psychonomic Society. Vancouver, BC, Canada.
6. **Licalalde, V.R.T.**, Lim, J.H., & Ferreira, F. (March 2017). *Working memory and word frequency relate to offline ambiguity resolution by influencing prosody*. Poster presented at the 30th CUNY Conference on Human Sentence Processing. Cambridge, MA.
7. **Licalalde, V.R.T.** & Gordon, P.C. (March 2017). *Consequences of power transformations on trial-level analyses of chronometric data*. Poster presented at the 2017 North Carolina Cognition Conference. Greensboro, NC.
8. **Licalalde, V.R.T.** & Gordon, P.C. (November 2015). *Individual differences and corpus-driven differences in frequency effects on word recognition*. Paper presented at the 56th Annual Meeting of the Psychonomic Society. Chicago, IL.
9. **Licalalde, V.R.T.**, Lim, J.H., Nye, J., Gwara, I., & Ferreira, F. (February 2015). *Overt prosody clarifies the relationship between attachment preference and working memory*. Poster presented at the 2015 North Carolina Cognition Conference. Elon, NC.
10. **Licalalde, V.R.T.** & Abell, A. (April 2013). *Self-efficacy and motivation due to performance feedback counteract ego depletion*. Poster presented at Saint Louis University's 10th Annual Psychology Capstone Symposium. St. Louis, MO.
11. **Licalalde, V.R.T.**, Toth, M.J., & Wang, L. (April 2013). *Influence of the self-reference effect on test performance*. Poster presented at Saint Louis University's 10th Annual Psychology Capstone Symposium. St. Louis, MO.
12. **Licalalde, V.R.T.**, Sitzman, D.M., & Rhodes, M.G. (August 2012). *Gosh I knew that: Prior knowledge, but not confidence, predicts older adults' error correction*. Poster presented at Colorado State University's Summer Program on Mind and Brain Symposium. Fort Collins, CO.

Teaching

University of North Carolina at Chapel Hill

Chapel Hill, NC

GRADUATE TEACHING ASSOCIATE

2014-2021

- Fall 2019 Multilevel Modeling (Instructor: Daniel J. Bauer, PhD)
- Fall 2017 Multilevel Modeling (Instructor: Daniel J. Bauer, PhD)

TEACHING ASSOCIATE

- Spring 2020 Statistical Principles of Psychological Research (Instructor: Viji Sathy, PhD)
- Summer 2019 Statistical Principles of Psychological Research (Instructor: Neil W. Mulligan, PhD)
- Spring 2019 Statistical Principles of Psychological Research (Instructor: Viji Sathy, PhD)
- Summer 2018 Laboratory Research in Psychology (Instructor: Elizabeth Adams, PhD)
- Spring 2018 Statistical Principles of Psychological Research (Instructor: Viji Sathy, PhD)
- Spring 2017 Statistical Principles of Psychological Research (Instructor: Patrick Harrison, PhD)
- Fall 2016 Laboratory Research in Psychology (Instructor: Viji Sathy, PhD)
- Spring 2016 Statistical Principles of Psychological Research (Instructor: Elizabeth Jordan, PhD)
- Fall 2015 Statistical Principles of Psychological Research (Instructor: Elizabeth Jordan, PhD)

INSTRUCTIONAL ASSISTANT

- Fall 2021 Sensation and Perception (Instructor: Vicki Chanon, PhD)
- Fall 2020 Introduction to Psychology (Instructor: Jeannie Loeb, PhD)
- Fall 2018 Cognitive Science (Instructor: Peter C. Gordon, PhD)
- Spring 2015 Cognitive Psychology (Instructor: Joseph Hopfinger, PhD)
- Fall 2014 Sensation and Perception (Instructor: Mark Hollins, PhD)

GRADUATE RESEARCH CONSULTANT

- Fall 2020 Predictive Analytics in Sport (Instructor: Jonathan Jensen, PhD)
- Fall 2019 Predictive Analytics in Sport (Instructor: Jonathan Jensen, PhD)

Skills

Natural languages	Tagalog (<i>native</i>), English (<i>fluent</i>), Ilocano (<i>listening and reading proficiency</i>), German (<i>B1; intermediate</i>)
Computing software	R, SPSS, SAS, SQL, Stata, Python, MATLAB
Experiment building software	OpenSesame, E-Prime
Psycholinguistic software	Praat
Coursework	Linear regression, multilevel/mixed-effects modeling, structural equation modeling, growth curve modeling, data visualization, time-series analysis, Bayesian statistics, machine learning

Service

GradMAP Philippines

VOLUNTEER MENTOR

- An international network of scientists mentoring Filipinos applying for graduate studies across the world

Philippines

2020-present

University of North Carolina at Chapel Hill

DIVERSITY AND EQUITY LEADERSHIP COMMITTEE, DEPT OF PSYCHOLOGY AND NEUROSCIENCE

- 2020-2021 Member, Communications and Transparency Subcommittee
- 2020-2021 Member, Graduate Student Recruitment and Retention Subcommittee

Chapel Hill, NC

2020-2021

COGNITIVE PROGRAM GRADUATE STUDENT REPRESENTATIVE, DEPT OF PSYCHOLOGY AND NEUROSCIENCE

2018

Saint Louis University

FILIPINO STUDENT ASSOCIATION

- 2013-2014 Philanthropy Committee Core Member
- 2012-2013 Cultural Awareness Chair

PSI CHI (HONOR SOCIETY IN PSYCHOLOGY)

- 2012-2013 Vice President

St. Louis, MO

2012-2014

References

Peter C. Gordon, PhD

PROFESSOR, PSYCHOLOGY AND NEUROSCIENCE

University of North Carolina at Chapel Hill

pcg@email.unc.edu

Daniel J. Bauer, PhD

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Jennifer E. Arnold, PhD

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jarnold@email.unc.edu

Beata Beigman Klebanov, PhD

SENIOR RESEARCH SCIENTIST

Educational Testing Service

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