
Ole Edvard Granrud, M.A.

236 Audubon Hall • Baton Rouge, LA • 70803 • Department of Psychology • LSU
ogranr1@lsu.edu

EDUCATION

PhD. Clinical Psychology

Louisiana State University

Dissertation title: *Brain Freeze: Inducing and Decoding Psychomotor Retardation with Transcranial Magnetic Stimulation* (advisor Dr. Alex Cohen)

General Exam: Completed October 2024

Dissertation Proposal: Completed October 2024

TBA 2026

Baton Rouge, LA

M.A. Psychology

Louisiana State University

Thesis title: *The What and When of Psychomotor Retardation: A Multimodal Approach*
(Advisor: Alex Cohen)

5/2023

Baton Rouge, LA

B.A. Psychology, Summa Cum Laude, Departmental Honors

Centenary College of Louisiana

Honors thesis title: *"Like" me: How social inclusion vs. exclusion affects mental representations of one's own face* (Advisor: Peter Zunick)

Dean's List: Spring-Fall 2016, 2017, 2018, and 2019

5/2019

Shreveport, LA

RESEARCH INTERESTS

- Development of novel speech analysis methodologies in serious mental illness, integrating natural language processing and acoustic features to establish reliable objective measurements
- Systematic investigation of psychomotor retardation through multimodal assessment, culminating in transcranial magnetic stimulation (TMS) protocols
- Engineering of machine learning pipelines for clinical speech analysis, with particular focus on capturing complex phenomena like rumination
- Translation of computational approaches into validated clinical assessment tools for serious mental illness

PEER-REVIEWED PUBLICATIONS

Granrud, O. E., Rodriguez, Z., Cowan, T., Masucci, M. D., & Cohen, A. S. (2023). Alogia and pressured speech do not fall on a continuum of speech production using objective speech technologies. *Schizophrenia research*, 259, 121-126.

Cowan, T., Rodriguez, Z. B., **Granrud, O. E.**, Masucci, M. D., Docherty, N. M., & Cohen, A. S. (2022). Talking about health: a topic analysis of narratives from individuals with schizophrenia and other serious mental illnesses. *Behavioral Sciences*, 12(8), 286.

Cohen, A. S., Rodriguez, Z., Warren, K. K., Cowan, T., Masucci, M. D., **Granrud, O. E.**, ... & Strauss, G. P. (2022). Natural language processing and psychosis: on the need for comprehensive psychometric evaluation. *Schizophrenia bulletin*, 48(5), 939-948.

MANUSCRIPTS UNDER REVIEW

Granrud, O. E., Corporandy, A., Holmlund, T., Elevåg, B., ..., & Cohen, A. S. (Under Review). *Dynamic or Not, Here I Come: Ambulatory Assessment of Psychomotor Ability for Clinical Predictions*.

MANUSCRIPTS IN PREPERATION

Granrud, O. E., Divers, R., Calamia, M., Morgan, B., ... Cohen, A. S.. "Understanding ruminative speech and its cognitive underpinnings though Natural Language Processing."

Masucci, M. D., Cohen, A. S., Cox, C., Rodriguez, Z., **Granrud, O. E.** "Behavioral shifts in natural speech, language, and facial expression following ayahuasca ceremonies."

- Cohen, A. S., Masucci, M. D., **Granrud, O. E.**, Warren, K. K., ... Zollicoffer, A. "Humanizing "multimodal" digital phenotyping of negative symptoms: Conceptually driven multimodal feature integration."
- Cohen, A. S., **Granrud, O. E.**, Corporandy, A., Warren, K. K. "Detecting relapse in FEP or CHR through speech analysis: proximal and distal considerations in monthly evaluations over a year."
- Cohen, A. S., Divers, R., Calamia, M., Masucci, M. D., **Granrud, O. E.**, ... Diaz-Asper, C. "Speech Pause/rate for evaluating Alzheimer's and Mild Cognitive Impairment: A Meta-analysis."

CONFERENCE POSTERS & PRESENTATIONS

- Granrud, O.E.**, Divers, R., Calamia, M., Buerke, M., Cohen, A.S. *Understanding ruminative speech and its cognitive underpinnings through Natural Language Processing*. Society for Research in Psychopathology 2024 Annual Meeting, Montreal, Canada.
- Granrud, O.E.**, Rodriguez, Z., Cohen, A.S. *Speech Dynamics in Serious Mental Illness: Sex-Specific Patterns of Psychomotor Retardation*. Society for Research in Psychopathology 2023 Annual Meeting, St. Louis, United States.
- Corporandy, A., Cohen, A.S, **Granrud, O.E.** *Speaking the Same Language: Analyzing the directionality of vocal synchrony in semi-structured interview data*. Society for Research in Psychopathology 2023 Annual Meeting, St. Louis, United States.
- Warren, K., **Granrud, O.E.**, Cohen, A.S. *Is Clinician Behavior Related to Patient's Suspiciousness?: A Speech Analysis of Clinical Interviews*. Society for Research in Psychopathology 2023 Annual Meeting, St. Louis, United States.
- Granrud, O.E.**, Rodriguez, Z., Cowan, T, Masucci, M.D.. Cohen, A.S. *Alogia and pressured speech do not fall on a continuum of speech production using objective speech technologies*. Society for Research in Psychopathology 2022 Annual Meeting, Philadelphia, United States.
- Masucci, M.D., Cowan, T., **Granrud, O.E.**, Divers, R. & Cohen, A.S. *Negative affect moderates effect of trait self-disturbance on momentary anomalous self experience*. Society for Research in Psychopathology 2022 Annual Meeting, Philadelphia, United States.
- Granrud, O.E.**, Cohen, A.S., Masucci, M.D., Cowan, T. *Dynamic or Not, Here I Come: Ambulatory Assessment of Psychomotor Ability for Clinical Predictions*. Society for Research in Psychopathology 2021 Annual Meeting, Virtual, United States.
- Granrud, O.E.**, Zunick, P.V. (2019, February). "Like" me: How social inclusion vs. exclusion affects mental representations of one's own face. Poster presented at the annual meeting of the Society for Personality and Social Psychology, Portland, Oregon.
- Granrud, O.E.**, Zunick, P.V. (2019, April). "Like" me: How social inclusion vs. exclusion affects mental representations of one's own face. Paper presentation at the annual Centenary Research Conference, Shreveport, United States.

RESEARCH EXPERIENCE

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|---|-----------------|
| Graduate Research Assistant LSU Scimeca Cognitive Neuroscience Lab | 6/2024-Present |
| Advisor: Jason Scimeca, PhD | Baton Rouge, LA |
| <ul style="list-style-type: none"> • Leading dissertation on causal mechanisms of psychomotor retardation using iTBS • Designing randomized, active-controlled crossover study targeting supplementary motor area • Developing integrated assessment protocols for cognitive, motor, and speech functions • Establishing neuromodulation procedures for non-clinical populations • Validating novel assessment tools through interdisciplinary collaboration | |
| Graduate Research Assistant LSU Affective Science and Psychopathology Lab | 8/2020-Present |
| Advisor: Alex S. Cohen, PhD | Baton Rouge, LA |
| <ul style="list-style-type: none"> • Co-created LLM-based pipeline for story memory test development to be deployed in multisite study (NIH Grant: 1U01MH135901-01) • Developing sentence-level operational definitions of rumination using NLP • Created ML models predicting smoking history from acoustic jitter | |

- Leading analysis of relationships between rumination, affect, depression, and frontally-mediated cognition
- Validating ambulatory diadochokinetic tasks for neurological soft sign assessment
- Co-developed "thin-slicing" methodology for SMI assessment in EMA videos, and trained 15 undergraduate raters in the assessment

Graduate Research Assistant | LSU | Center for Computation and Technology

Advisor: Alex S. Cohen, PhD

6/2021-6/2024

Baton Rouge, LA

- Engineered multi-level speech analysis pipeline integrating Azure ASR, NLP, and acoustics
- Developed hierarchical acoustic analysis system for word, sentence, and full recording units
- Created pipeline examining relationships between speech content and acoustic qualities
- Quantified emotional expressions using FaceReader software

CLINICAL EXPERIENCE

Psychology Extern | Eastern Louisiana Mental Health System, Forensic Division

Supervisors: Beth Arredondo, PhD., ABPP, Tina Myers, PhD. & Gina Manguno-Mire, PhD., ABPP.

6/2021-Present

Jackson, LA

- Conducted intake assessments, neuropsychological testing, and consultations with forensic inpatients
- Provided individual CBT for Psychosis and DBT skills training to individuals with SMI
- Facilitated group interventions including Social Skills Training and CBT for Psychosis
- Engaged in interdisciplinary consultation for complex forensic cases

Psychology Extern | Psychological Services Center, Louisiana State University

Supervisors: Amy Copeland, PhD., and Matthew Calamia, PhD

6/2021-Present

Baton Rouge, LA

- Conducted comprehensive psychological evaluations and diagnostic assessments
- Delivered evidence-based treatments including CBT, DBT, and MBCT for diverse adult population including university students and community members
- Supervised junior practicum students and facilitated peer consultation
- Presented clinical cases and treatment formulations in practicum meetings

Psychology Extern | Frey Psychology

Supervisor: Charley Frey, PhD

6/2021-07/2023

Baton Rouge, LA

- Conducted comprehensive psychoeducational assessments for adolescents and young adults
- Evaluated learning disabilities, ADHD, and other academic-related concerns

Environmental Therapist | Sanderud Psychiatric Hospital

5/2018-8/2020

Ottestad, Norway

- Provided direct patient care and crisis intervention in acute psychiatric inpatient unit
- Documented clinical observations and symptoms for interdisciplinary treatment team
- Promoted safe and therapeutic milieu through patient engagement and monitoring
- Advanced from competitive summer internship to full-time staff position

RESEARCH SOFTWARE PROFICIENCIES

- Programming & Analysis: R, Python
- Natural Language Processing: NLTK, spaCy, Stanford NLP, HuggingFace
- Speech Analysis: PRAAT, GeMAPS, CANS, OpenSMILE
- Behavioral Analysis: FaceReader
- Research Tools: Qualtrics, LLM Prompt Engineering

FUNDING AND AWARDS

Graduate School Assistantship, Eastern Louisiana Mental Health System | LSU

6/2021-Present

Baton Rouge, LA

Graduate School Assistantship, Center for Computation and Technology | LSU

6/2021-6/2024

Baton Rouge, LA

Graduate School Assistantship, Teaching Assistantship | LSU

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8/2020-06/2021
Baton Rouge, LA

Summer Research Grant | Centenary College of Louisiana

5/2018
Shreveport, LA

SERVICE TO PROFESSION

Trainer for the Brief Psychiatric Rating Scale 4.0

6/2021-Present

Psychology Department | Eastern Louisiana Health Medical System

Jackson, LA

- Administered monthly BPRS training sessions under the supervision of Gina Mire, Ph.D., enhancing assessment standardization across three departments
- Generated inter-rater reliability scores and provided targeted feedback, ensuring consistent assessment quality
- BPRS assessments guide critical clinical determinations, including court competency and acute hospitalization decisions

Refereed Articles

- Psychiatry Research

PROFFESIONAL CERTIFICATIONS

Positive and Negative Syndrome Scale (PANSS) Certification by the PANSS Institute

6/2023

CULTURAL EXPERIENCES & SPOKEN LANGUAGES

Countries of residence:

- Norway | 11 years
- New Zealand | 8 years
- USA | 8 years

Languages:

- English | Fluent bilingual speaker
- Norwegian | Fluent native speaker
- Swedish | Working proficiency
- Danish | Working proficiency