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# Ole Edvard Granrud, M.A.

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## EDUCATION

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### 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

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## RESEARCH INTERESTS

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- 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

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## PEER-REVIEWED PUBLICATIONS

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**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.

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## MANUSCRIPTS UNDER REVIEW

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**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*.

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## MANUSCRIPTS IN PREPERATION

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**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."

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## CONFERENCE POSTERS & PRESENTATIONS

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- 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.

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## RESEARCH EXPERIENCE

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

- 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

6/2021-6/2024

Advisor: Alex S. Cohen, PhD

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

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## CLINICAL EXPERIENCE

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Psychology Extern | Eastern Louisiana Mental Health System, Forensic Division

6/2021-Present

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

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

6/2021-Present

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

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

6/2021-07/2023

Supervisor: Charley Frey, PhD

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

- 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

Ottestad, Norway

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## RESEARCH SOFTWARE PROFICIENCIES

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- 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

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## FUNDING AND AWARDS

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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

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### SERVICE TO PROFESSION

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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

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### PROFFESIONAL CERTIFICATIONS

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

6/2023

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### CULTURAL EXPERIENCES & SPOKEN LANGUAGES

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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