

**NEURAL ANALYSIS OF EMOTIONAL AND AESTHETICS
PATTERNS IN ACADEMIC WRITING: AN AI-ASSISTED
ANALYTICAL APPROACH**

A THESIS

Submitted to English Language Teaching Department of *Tarbiyah* and Teacher Training
Faculty of *Syekh Nurjati* State Cyber Islamic University Cirebon in Partial Fulfillment of the
Requirements for Undergraduate Degree



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ABSTRACT

Farah Syifa Mutiara Riyadi. 2281030002. Neural Analysis of Emotional and Aesthetics Patterns in Academic Writing: An AI-Assisted Analytical Approach

Writing pedagogy in Indonesia raises alarming concerns, as its implementation is discrepant with the goal of transformative learning in the 21st century and principles in the deep learning approach. This issue highlights the needs of deviation in writing instruction to be more innovative and meaningful, moving beyond rigid and uniform structure of instruction. This qualitative content analysis study analyzes 15 abstracts written by undergraduate students majoring English Language Teaching Department which aims to explore the quality of thesis abstracts by assessing the informational flow of the authors through the text and its resonance with the problem-solving structure within the texts. Through the implementation of these two Brain-Informed frameworks; Reading for Emotion (Lian, 2017; 2024), Aesthetics Principles (Ramachandran & Hirstein, 1999), the REA integration, and incorporation of AI-Assisted tool, specifically QwenAI, the study further aims to give a new way of assessing the quality of academic texts from different lens and the new way of utilizing digital technology based on *Alternative Intelligence* concept. As stated by Sudimantara (2021) and Sudimantara, et al (2025), these tools optimize learning by aligning teaching strategies with human brain function, affecting in more meaningful learning cognitively and affectively. The findings reveal that across 15 analyzed abstracts, there are four abstracts that have dynamic informational flow, emphasizing tension to guide reader's attention and provide moral closure. REA integration, moreover, indicates that the Focus stage dominates and reflects the principle of symmetry and order, suggesting an emphasis on descriptive reporting in most abstracts. This research matters because it explains how academic abstracts work not only at the structure level, but more at the level of reader engagement. This study is expected to be able to contribute in the development of writing pedagogy to be a more meaningful way through human brain-aligned frameworks.

Keywords: deep learning approach, academic writing pedagogy, innovative instruction, brain-informed frameworks, alternative intelligence

APPROVAL
NEURAL ANALYSIS OF EMOTIONAL AND AESTHETICS
PATTERSN IN ACADEMIC WRITING: AN AI-ASSISTED
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Assalamu'alaikum Warahmatullahi Wabarakatuh.

After guiding, analyzing, briefing, and correcting the writing of Farah Syifa Mutiara Riyadi with registered number 2281030002 entitled “**NEURAL ANALYSIS OF EMOTIONAL AND AESTHETICS PATTERNS IN ACADEMIC WRITING: AN AI-ASSISTED ANALYTICAL APPROACH**”, we are of the opinion that her thesis can be offered to be presented to the English Language Teaching Department, *Tarbiyah* and Teacher Training Faculty, *Syekh Nurjati* State Cyber Islamic University Cirebon.

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LETTER OF AUTHENTICITY

I hereby declare that this thesis does not contain any work that has been submitted to obtain a bachelor's degree at a university, and to the best of my knowledge, it does not contain any work that has been written or published by others, except those that are referenced in writing in the manuscript and mentioned in the bibliography.

Cirebon, March 26th 2026




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RATIFICATION

The thesis entitled “**NEURAL ANALYSIS OF EMOTIONAL AND AESTHETICS PATTERNS IN ACADEMIC WRITING: AN AI-ASSISTED ANALYTICAL APPROACH**” written by Farah Syifa Mutiara Riyadi, with the registered number 2281030002, has been examined on March 13th 2026. The examiners have been accepted it as one of the requirements Undergraduate Degree in the English Language Teaching Department at *Tarbiyah* and Teaching Training faculty of *Syekh Nurjati State Islamic Cyber University Cirebon*.

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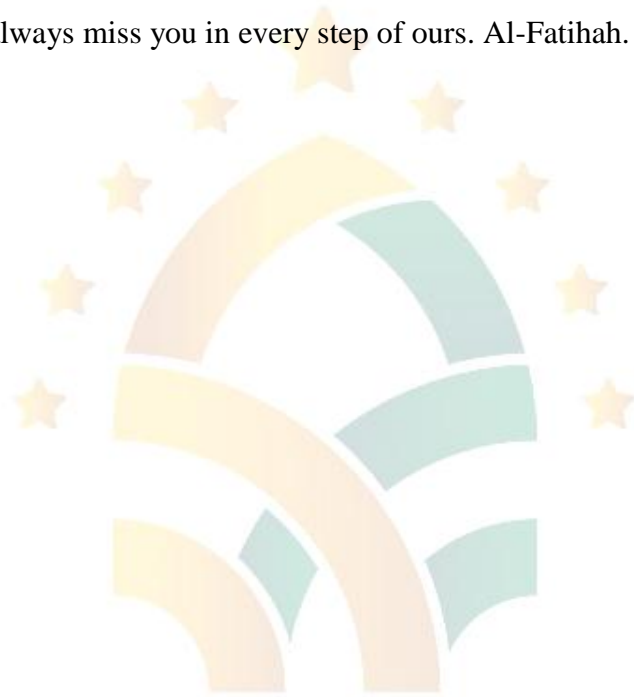
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DEDICATION

This thesis is dedicated to my beloved Ibu, Ayah, and Aa as my little-solid family. Thank you for your unbeatable loves and magic supports that make me always feel alive and capable to step forward. As individuals who have the most important role in my life, my strengths are in your presence and du'a. Specially for our Ayah, we always miss you in every step of ours. Al-Fatihah.



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AUTOBIOGRAPHY

Farah Syifa Mutiara Riyadi was born in Cirebon, October 7th 2003. She lives in Arida Regency, Cirebon, West Java, Indonesia. She completed her elementary education at SDN Tampomas Cirebon, followed by her junior secondary education at SMPN 7 Cirebon, and her senior secondary education at SMAN 9 Cirebon.



The researcher is the youngest daughter in her family and has one elder brother. She is grateful to grow up in a supportive family environment that continuously encourages her academic and personal development.

She is currently pursuing her undergraduate study in the English Language Teaching Department of *Tarbiyah* and Teacher Training Faculty of *Syekh Nurjati* State Cyber Islamic University Cirebon. During her study, she has been actively involved in academic and international activities, particularly through the International Office in supporting international collaboration programs and assisting international students. She is also a member of the Korps Protokoler Mahasiswa (KPM) as one of the university internal communities and has participated actively in several academic or other engagements.

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MOTTO

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The journey of Bachelor's degree, including thesis writing phase will be a very long, emotional, and truly meaningful for my own self. Several hard moments were accompanying my steps, but fortunately, Allah gives me a lot of easiness through the individuals who have and always support and encourage me to pass this all. For those things, I would like to express my deepest gratitude and thanks through this page.

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Cirebon, March 26th 2026

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PREFACE

In the name of Allah SWT, who is the most Gracious and Merciful, we express our gratitude and offer praise to Allah SWT, the Lord of the universe. May blessings be upon the prophet Muhammad SAW (peace be upon him), his family, and his followers until the end of the time. The title of this study is **“NEURAL ANALYSIS OF EMOTIONAL AND AESTHETICS PATTERNS IN ACADEMIC WRITING: AN AI-ASSISTED ANALYTICAL APPROACH”** which is being presented to the English Language Teaching Department of *Tarbiyah* and Teacher Training Faculty at *Syekh Nurjati* State Islamic Cyber University Cirebon, as partial fulfillment of the requirements for a Bachelor’s degree. The researcher acknowledges that this thesis is not yet perfect and takes full responsibility for any errors or omissions. Suggestions and ideas to enhance the study are welcome. It is hoped that this thesis will be useful for the English Language Teaching Department and all readers.

Cirebon, March 26th 2026

The Researcher

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