

# Amirul Aizad Ahmad Fuad

✉ dazi Amirul@gmail.com

in www.linkedin.com/in/amirulaizad



## Working Experiences

- 2017 – 2019    **Private Home Tutor** Skudai, Johor.  
Additional Mathematics/Mathematics Form 4 and Form 5.
- 2021    **Tuition teacher, Smart Brainy Premium Tuition** Jitra, Kedah.  
Additional Mathematics/Mathematics Form 4 and Form 5.

## Education

- 2017 – 2021    **Ph.D. in Mathematics**, Universiti Teknologi Malaysia  
Thesis title: *Jordan-Chevalley decomposition of recorded electroencephalography (EEG) signals during epileptic seizures*
- 2014 – 2016    **Master of Science (Mathematics)**, Universiti Teknologi Malaysia CGPA:3.67  
Dissertation title: *Second Isomorphism Theorem of Fuzzy Topographic Topological Mapping*.
- 2010 – 2014    **Bachelor of Mathematical Sciences**, International Islamic University Malaysia.  
CGPA:3.17

## List of Publications

### Journal articles

- **Ahmad Fuad, A. A.**, & Ahmad, T.\* (2021a). Ordering of Transformed Recorded Electroencephalography (EEG) Signals by a Novel Precede Operator. *Journal of Mathematics*, 2021, 6651445. <https://doi.org/10.1155/2021/6651445> (**Q1, IF: 1.555**)
- **Ahmad Fuad, A. A.**, & Ahmad, T.\* (2021b). Decomposing the Krohn-Rhodes Form of Electroencephalography (EEG) Signals Using Jordan-Chevalley Decomposition Technique. *Axioms* 2021, Vol. 10, Page 10, 10(1), 10. <https://doi.org/10.3390/AXIOMS10010010> (**Q2, IF: 1.824**)
- Hassan, N., Ahmad, T.\*, Ashaari, A., Awang, S. R., Mamat, S. S., Wan Mohamad, W. M., & **Ahmad Fuad, A. A.** (2021). A fuzzy graph approach analysis for COVID-19 outbreak. *Results in Physics*, 25, 104267. <https://doi.org/10.1016/j.rinp.2021.104267> (**Q1, IF: 4.476**)
- Shukor, N. A., Ahmad, T.\*, Idris, A., Awang, S. R., Mamat, S. S., Wan Mohamad, W. M., & **Ahmad Fuad, A. A.** (2021). Graph of Fuzzy Topographic Topological Mapping in relation to k-Fibonacci Sequence. *Journal of Mathematics*, 2021, 7519643. <https://doi.org/10.1155/2021/7519643> (**Q1, IF: 1.555**)

### Conference Proceedings

- **Ahmad Fuad, A. A.** and Ahmad, T.\* The decomposition of electroencephalography signals during epileptic seizure. In *AIP Conference Proceedings*. 2019. Vol. 2184. ISBN 9780735419315. ISSN 15517616. doi: 10.1063/1.5136478 (**Scopus**)

## List of Publications (continued)

---

- **Ahmad Fuad, A. A.**, Ahmad, T.\* and Mohamad Nor, N. A. Elementary components of electroencephalography signals viewed as prime numbers, *Journal of Physics: Conference Series*, 1988(1), 12073. <https://doi.org/10.1088/1742-6596/1988/1/012073> (**Scopus**).

### Online Articles

- Ahmad, T.\*, Ashaari, A., Awang, S. R., Mamat, S. S., Wan Mohamad, W. M., **Ahmad Fuad, A. A.**, and Hassan, N. Fuzzy autocatalytic analysis of COVID-19 outbreak in Malaysia. *medRxiv*. doi: 10.1101/2020.05.17.20104968. eprint:<https://www.medrxiv.org/content/early/2020/05/21/2020.05.17.20104968.full.pdf>
- Ahmad, T.\*, Ashaari, A., Awang, S. R., Mamat, S. S., Wan Mohamad, W. M., **Ahmad Fuad, A. A.**, and Hassan, N. Identification of severity zones for mitigation strategy assessment covid-19 outbreak in Malaysia *medRxiv*. doi: 10.1101/2020.05.19.20107359. eprint:<https://www.medrxiv.org/content/early/2020/05/26/2020.05.19.20107359.full.pdf>
- Ahmad, T., Ashaari, A., Awang, S. R., Mamat, S. S., Wan Mohamad, W. M., **Ahmad Fuad, A. A.** and Hassan, N. Covid-19: Dari lensa kelompok kabur. Retrieved from <https://news.utm.my/ms/2020/04/covid-19-dari-lensa-kelompok-kabur/>
- Ahmad, T., Ashaari, A., Awang, S. R., Mamat, S. S., Wan Mohamad, W. M., **Ahmad Fuad, A. A.** and Hassan, N. COVID-19: Mendatarkan lengkung Retrieved from <https://news.utm.my/ms/2020/04/covid-19-m mendatarkan-lengkung/>
- Ahmad, T., Ashaari, A., Awang, S. R., Mamat, S. S., Wan Mohamad, W. M., **Ahmad Fuad, A. A.** and Hassan, N. COVID-19: Setiap integer mewakili satu nyawa Retrieved from <https://news.utm.my/ms/2020/04/covid-19-setiap-integer-mewakili-satu-nyawa/>

### Book Chapter

- Ahmad, T., **Ahmad Fuad, A. A.** and Ali Barja, A. O. Semigroup as a model of time for EEG signals. In edited book, *Application of Mathematical Modelling in Medical Sciences*. Penerbit UTM (submitted)

## Additional Activities

---

- Webinar ■ Panelist on a lecture entitled “Nabi Musa di Lembah yang Suci” as part of **Bicara Santai – Apa Habaq Semua** series organized by ABIM Kedah on 20th June 2021.
- Colloquium ■ Organized a weekly colloquium session among the students under the supervision of Prof. Tahir.
- Workshop ■ Conducted a workshop on typesetting with  $\LaTeX$ .
- Sports ■ Actively participating in running events and rugby competition.



## Skills

---

- Languages ■ Strong reading, writing and speaking competencies for English, and Bahasa Malaysia.
- Programming ■ Python, R,  $\LaTeX$

## Certification

---

- Python  **Python for Everybody (Getting Started with Python)**. Coursera, ID M5H32WB5S9UK.  
skava bvidsB V JDBVIASDB VIHSD VIHISD
- R  **The Data Scientist's Toolbox**. Coursera, ID 3UE6VA29PDPW.

## References

---

### **Prof. Dr. Tahir Ahmad**

Professor of Mathematics  
Department of Mathematical Sciences,  
Faculty of Science,  
Universiti Teknologi Malaysia, 81310,  
Skudai, Johor  
Email: tahir@utm.my  
No tel: 019-777 6210

### **Prof. Dr. Nor Haniza Sarmin**

Professor of Mathematics  
Department of Mathematical Sciences,  
Faculty of Science,  
Universiti Teknologi Malaysia, 81310,  
Skudai, Johor  
Email: nhs@utm.my  
No tel: 017-755 7660