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## **BIOGRAPHY OF EFE PRECIOUS ONAKPOJERUO**

Efe Precious Onakpojeruo, a passionate Biomedical Data Scientist and Decision Analyst, began his data science journey in Nigeria with a focus on driving research success through advanced analytics. He holds a Bachelor's degree in Medical Biochemistry & Genetics and gained professional experience as a Laboratory Technician.

In 2018, during his one-year compulsory National Youth Service, Efe excelled as a Data Analyst/Technician at Daily Need Industries Nig. Ltd., ensuring the quality of drugs through meticulous data analysis. He continued his academic journey at Near East University, earning a Master's and Ph.D. in Biomedical Engineering.

Efe's commitment to skill development is evident through certifications, including the Master of Data Science and Deep Learning Specialization. His international experience includes roles like Laboratory Analyst at Biogram Tibbi Laboratuvari and Full Stack Data Scientist at 10Alytics. Efe's contributions extended to data analysis, insights generation, and data visualization using tools like Tableau, Excel, Power BI, SQL, and Python showcasing his ability to drive actionable recommendations.

Currently a Data Scientist and prolific researcher at the Operational Research Center in Healthcare, Near East University, where he improved image synthesis using Generative Adversarial Networks.

Recently, Efe has been working on multi-criteria decision-making applications in healthcare and medicine, as well as deep learning in medical imaging such as applying neural network algorithms for neuropsychiatric diseases like AD and PD, cancerous diseases such as kidney cancers, spinal cord cancers, bone tumors, brain tumors, and lung cancer for high-accuracy classification and early detection.

His research contributions, recognized through publications and conference presentations, showcase his dedication to advancing technology in healthcare and medicine. He has also served as a reviewer of various prestigious journals indexed in WOS and SCOPUS, such as Current Chinese Computer Science, Dergipark, and MDPI among others.

Efe's journey is characterized by a commitment to excellence in data science and biomedical engineering, making him a valuable asset in advanced analytics and healthcare innovation.

**ACADEMIC  
CURRICULUM VITAE**

**1. Name - Surname:** Efe Precious Onakpojeruo

**2. Title:**

**3. Educational Background:**

Degree	Department/Program	University	Year
Bachelor's	Medical Biochemistry & Genetics	Delta State University Abraka, Nigeria	2018
Master's	Biomedical Engineering	Near East University	2022
PhD	Biomedical Engineering	Near East University	2024

**Additional Certifications**

2023	<b>Master of Data Science</b> (10Alytics, Ireland/UK)
2023	<b>Deep Learning Specialization</b> (in-depth study of Generative Adversarial Networks (Coursera)
2023	<b>Professional Diploma in Data Science</b> (Taraba Business School Nigeria)
2022	<b>Machine Learning Engineer</b> (AWS - UDACITY Nano-Degree)
2014 – 2015	<b>Wisdom Foundation for Leadership</b>
2012 – 2014	<b>Fastlink Computers Innovation and Communication School Inc. Nigeria</b>

**4. Master's / PhD Thesis**

**4.1. Master's Thesis Title and Thesis Advisor(s):** Evaluation of the Non-Pharmacological Methods of Controlling Pain During Childbirth; Using Analytical Evaluation Models. (2022) Prof. Dr. Dilber Uzun Ozsahin

**4.2. PhD Thesis /Medical Specialty Thesis Title and Advisor(s):** A Comparative Analysis of the Novel C-DCNN Model, Using DCGAN Generated Synthetic and Augmented Brain and Kidney Tumor Datasets for Image Classification. (2024) Assoc. Prof. Dr. Ilker Ozsahin

**5. Academic Titles:** Research Assistant (2022-2024)

**6. Supervised Master's and PhD Theses:**

**7. Publications**

**7.1. Articles Published in International Peer-Reviewed Journals (SCI, SSCI, AHCI, ESCI, Scopus)**

1. Ozsahin, Ilker, **Efe Precious Onakpojeruo**, Berna Uzun, Dilber Uzun Ozsahin, and Tracy A. Butler. (2023). "A Multi-Criteria Decision Aid Tool for Radiopharmaceutical Selection in Tau PET Imaging" *Pharmaceutics* 15, no. 4: 1304. <https://doi.org/10.3390/pharmaceutics15041304> Q1, IF-6.6
2. Uzun Ozsahin, D., **Efe Precious Onakpojeruo**, Bartholomew Duwa, B., Usman, A. G., Isah Abba, S., & Uzun, B. (2023). COVID-19 Prediction Using Black-Box Based Pearson Correlation Approach. *Diagnostics*, 13(7), 1264 Q2, IF-4.1
3. Uzun Ozsahin, D., **Efe Precious Onakpojeruo**, Uzun, B., Mustapha, M. T., & Ozsahin, I. (2023). Mathematical Assessment of Machine Learning Models Used for Brain Tumor Diagnosis. *Diagnostics*, 13(4), 618. <https://doi.org/10.3390/diagnostics13040618> Q2, IF-4.1
4. Sancar, N., **Efe Precious Onakpojeruo**, Inan, D., & Ozsahin, D. U. (2023). Adaptive Elastic Net Based on Modified PSO for Variable Selection in Cox Model with High-dimensional Data: A Comprehensive Simulation Study. *IEEE Access*. Q1, IF-3.9

## 7.2. Articles Published in Other International Peer-Reviewed Journals

5. Ozsahin, I., **Efe Precious Onakpojeruo**., Uzun, B., Ozsahin, D. U., & Butler, T. A. (2023). Radiopharmaceutical selection for tau PET imaging. *Alzheimer's & Dementia*, 19, e075631.

## 7.3. Papers Presented at International Scientific Conferences and Published in Conference

### Proceedings

6. Ozsahin, D. U., **Onakpojeruo, E. P.**, Uzun, B., & Ozsahin, I. (2023, February). Selection Methods for the Treatment of Spinal Cord Tumors Using Analytical Evaluation Models. In *2023 Advances in Science and Engineering Technology International Conferences (ASET)* (pp. 01-07). IEEE. Q1, IF-14.91
7. Ozsahin, D. U., **Onakpojeruo, E. P.**, Duwa, B. B., Uzun, B., Ozsahin, I., & Chioma, E. C. (2023, February). Comparative Evaluation of 3D Filaments Used in Additive Manufacturing of Biomedical Tools; Using Fuzzy PROMETHEE. In *2023 Advances in Science and Engineering Technology International Conferences (ASET)* (pp. 1-7). IEEE. Q1, IF-14.91
8. Ozsahin, D. U., **Onakpojeruo, E. P.**, & Uzun, B. (2023, February). Hydrogel-Based Drug Delivery Nanoparticles with Conventional Treatment Approaches for Cancer Tumors; A Comparative Study Using MCDM Technique. In *2023 Advances in Science and Engineering Technology International Conferences (ASET)* (pp. 1-9). IEEE. Q1, IF-14.91
9. Ozsahin, I., **Onakpojeruo, E. P.**, Uzun, B., Ozsahin, D. U., & Butler, T. A. (2023, July). Comparative evaluation of FDA-approved drugs for managing the symptoms of AD. In *Alzheimer's Association International Conference*. ALZ. Q1
10. Ubah, A. E., **Onakpojeruo, E. P.**, Ajamu, J., Mangai, T. R., Isa, A. M., Ayansina, N. B., & Al-Turjman, F. (2022, October). A Review of Artificial Intelligence in Education. In *2022 International Conference on Artificial Intelligence of Things and Crowdsensing (AIoTCs)* (pp. 38-45). IEEE. Q1, IF-14.91
11. Ubah, A. E., **Onakpojeruo, E. P.**, Ajamu, J., Mangai, T. R., Isa, A. M., Ayansina, N. B., & Al-Turjman, F. (2022, October). Biometrics Authentication Techniques in E-Learning Assessment. In *2022 International Conference on Artificial Intelligence of Things and Crowdsensing (AIoTCs)* (pp. 126-132). IEEE. Q1, IF-14.91
12. **E. P. Onakpojeruo**, F. Al-Turjman, M. T. Mustapha, C. Altrjman and D. U. Ozsahin, "Emerging AI and cloud computing paradigms applied to healthcare," *The International Conference on*

*Forthcoming Networks and Sustainability (FoNeS)*, Hybrid Conference, Nicosia, Cyprus, 2022, pp. 811-826, doi: 10.1049/icp.2022.2557 Q1, IF-14.91

#### **7.4. National/international Books or Book Chapters**

13. Ozsahin, D. U...., **Onakpojeruo, E. P.**, (2024). Construction of an automated hand sanitizer dispenser used against transmissible diseases.

#### **7.5. Articles Published in National Peer-Reviewed Journals**

14. **Onakpojeruo, E. P.** Evaluation of the Non-Pharmacological Methods of Controlling Pain During Childbirth; Using Analytical Evaluation Models. (Master's Thesis)
15. **Onakpojeruo, E. P.**, Uzun, B., Ozsahin, I., & Ozsahin, D. U. (2022). Evaluation of the Treatment Alternatives for Spinal Cord Tumors Using Analytical Evaluation Models.
16. Duwa, B., **Onakpojeruo, E. P.**, Uzun, B., Ozsahin, I., & Ozsahin, D. U. (2022). Comparative Evaluation of 3D Filaments, Used in Additive Manufacturing of Biomedical Tools; Using Fuzzy Promethee.
17. **Onakpojeruo, E. P.**, Uzun, B., & Ozsahin, D. U. (2022). Hydrogel-Based Drug Delivery Nanoparticles with Conventional Treatment Approaches for Cancer Tumors; A comparative study using MCDM Technique.

#### **8. Art and Design Activities**

#### **9. Projects**

A Comparative Analysis of the Novel C-DCNN Model, Using DCGAN Generated Synthetic and Augmented Brain and Kidney Tumor Datasets for Image Classification. (2024) Assoc. Prof. Dr. Ilker Ozsahin

#### **10. Administrative Responsibilities**

#### **11. Memberships in Scientific and Professional Organizations**

European Union of Operational Research (EURO)

#### **12. Awards**

- AWS (UDACITY Nano-Degree) Award
- Master of Data Science Award @ 10Alytics, Ireland/UK
- Professional Diploma Award in Data Science @Taraba Business School Nigeria

#### **Conferences participation Certificates**

1. EURO 2022 ESPOO, FINLAND
2. Conference for Medical Students at Near East University 2022
3. International Conference on Artificial Intelligence in Everything 2022 Near East University
4. Association of Southern European Economic Theorists (ASSET 2022)
5. International Conference on Forthcoming Networks and Sustainability (FoNeS 2022)
6. Third International Conference on "Cyprus Issue" Environmental Challenges and Energy Security. (ECES 2022)
7. Ankara Humanities and Social Sciences Congress 2023
8. 3rd International Conference on Water Problems in Mediterranean Countries (WPMC-2023) Abstract Book is attached.