NNAMDI AZIKIWE UNIVERSITY, AWKA
ANNUAL APPRAISAL FOR 2021 (ACADEMIC STAFF) CURRICULUM VITAE

A. Demographic Data
i.	Full Name	: Ikechukwu E. Onyenwe
ii.	Staff ID Number	: SS-1960
iii.	Faculty	: Physical Science/Arts
iv.	Department	: Computer Science/Linguistics
v.	Present Rank	: Senior Lecturer
vi.	Date of Last Promotion	:1st October, 2018
vii.	Marital Status	: Married
viii.	Nationality	: Nigerian
ix.	State of Origin	: Anambra
x.	Local Government Area	: Aguata
xi.	Phone	: +234 803 7090 272
xii.	Email	: ie.onyenwe@unizik.edu.ng
xiii.	Staff Profile	: https://profile.unizik.edu.ng/nau2946

B. Institutions Attended and Qualifications Obtained with Issue Dates
i.	University of Sheffield, England, United Kingdom	PhD	03 May 2017
ii.	Nnamdi Azikwe University, Awka, Nigeria	Msc	13 August 2008
iii.	Nnamdi Azikwe University, Awka, Nigeria	BSc	01 April 2004
iv.	Bishop Crowther Seminary, Awka, Nigeria	WAEC	June 1998
v.	Eziagulu Primary School, Ekwulobia, Nigeria	FSLC	15th August, 1995

C. Dissertations
i. Onyenwe, Ikechukwu E. (2017) **Developing Methods and Resources for Automated Processing of the African Language Igbo**. Ph.D. thesis, University of Sheffield, United Kingdom. Links: http://etheses.whiterose.ac.uk/17043/.

ii. Onyenwe, Ikechukwu E. (2008) **Web-Enabled Allocation System for National Youth Service Corps**. M.Sc. thesis, Nnamdi Azikiwe University, Nigeria.

iii. Onyenwe, Ikechukwu E. (2004) **Design and Implementation of a Road Traffic Control System**. B.Sc. thesis, Nnamdi Azikiwe University, Nigeria.

D. Interests/Specializations
AI, Natural Language Processing (NLP), Computational Linguistics (CL), Machine Learning (ML), Information Extraction (IE), Social Network/Textual Data Analysis, Data Science/Cyber security, Website/Internet Computing.

E. Relevant Experiences
i. **Senior Lecturer**: Computer Science of Nnamdi Azikiwe University, Nigeria.
   Specifc duties include: Undergrad and PG Teaching and Supervision, Research, Publication, Conference.
   From 1st October, 2018 – Present.

ii. **Senior Lecturer**: Linguistics department of Nnamdi Azikiwe University, Nigeria.
   Specifc duties include: Undergrad and PG Teaching and Supervision, Research, Publication, Conference on Computational Linguistics.
   From 1st October, 2018 – Present.

iii. **Lecturer I**, Computer Science Nnamdi Azikiwe University, Nigeria.
Specifc duties include: Teaching, Supervision, Research, Publication, Conference.
From 1st October, 2013 – 1st October 2018 (resumed June 2018 after PhD study leave with pay From April 2013 – April 2018).

iv. **Research Fellow in Data Mining and Analysis for Forensic Linguistics at School of Arts of Nottingham Trent University, United Kingdom**.
Specifc duties include: I work on a project that investigate whether online communications between members of a discussion forum constitute incitement of violence against women. I worked with the project lead in the collection, preprocessing and analysis of internet forum data using Machine Learning and Natural Language Processing techniques, and contributing to conference presentations and publications, and liaising with non-academic audiences and stakeholders. It is a part-time and **Multidisciplinary Project** sponsored by the **British Academy small grant analysis and thoughts project**.
From 07/07/2017 – 13/05/2018.

v. **Microsoft Office Specialist (MOS) Exam Expert** working in collaboration with **PET-Xi, United Kingdom.**
Specifc duties include: To train students at Blessed Edward Jones Catholic High School, Rhyl in Wales, United Kingdom.
From 10 – 15 December 2017 – one week.

vi. **Computer Science Teacher** at the following Schools:
    i. Eckington School, United Kingdom. **From** Dec 2016 – May 2017.
    ii. High Storr School, United Kingdom. **From** July 3 – 24 2017.
    iii. Dinnington High School, United Kingdom. **From** Dec 2017 – April 2018.
Specifc duties include: Cover and Support Teaching. To prepare Computer Science students for A level.

vii. **Computer Programmer for Data Mining at Amazon project, Computer Science Department of Sheffield University**.
Specifc duties include: built bilingual data from Amazon products between English and French from a dataset (made of html pages) that contains product reviews and metadata from Amazon, including 142.8 million reviews spanning May 1996 - July 2014. Then, I used elasticsearch to format Amazon products storage in Json for easy comparing of parallel data.
From April 2017 – June 2017.

viii. **Project Manager at Software Hut**, Computer Science department of the University of Sheffield.
Specifc duties include: Managing groups of students working on different software projects.
From Feb - May 2017.

ix. **Graduate Teaching Assistant (GTA)**, Computer Science Department of the University of Sheffield, United Kingdom.
Specifc GTA duties include: I worked as a demonstrator/tutor helping to demonstrate, teach, supervise, encourage and facilitate effective group work among students during laboratory practice . I also invigilated both quizzes and exams, and undertake assessment and feedback activities with students and solve/manage problems that occurred when teaching small groups in the laboratory.
Courses Taught: COM1005: Machine and Intelligence, COM1002: Foundations of Computer Science, COM161: Introduction to Programming and Problem-Solving using Python, COM160: Computer Problem Solving and Object-Oriented Design using Python and COM1009: Introduction to Algorithms and Data Structures.
From September 2013 - December 2016.

x. **Chief Invigilator/Invigilator** at the University of Sheffield International College.
Specifc duties include: Exam Coordination, Supervision of invigilators, Invigilation.
From 2016 – 2018.

xi. **PHD student** of Computer Science, University of Sheffield, United Kingdom.
  Specifc duties include: Student, Research, Publication, Conference.
  From April 2013 - April 2017.

xii. **Lecturer II**, Computer Science Nnamdi Azikiwe University, Nigeria.
  Specifc duties include: Teaching, Supervision, Research, Publication, Conference.
  From June 2010 – October 2013.

xiii. **Assistant Lecturer**, Computer Science Nnamdi Azikiwe University, Awka.
  Specifc duties include: Teaching, Supervision, Research, Publication, Conference.
  From July 2009 - June 2010.

xiv. **Computer Programmer II (Senior Staff)**, Nnamdi Azikiwe University, Awka.
  Specifc duties include: Handling of ICT/Computer programming needs of the University. Analysis and Computerization of Existing System.
  From September 2007 – July 2009.

F. Creative Outputs
Books
iv. Onyenwe Ikechukwu (2007), **Basic Computing and Microsoft Applications**; LAP Publishers, 47 Amawbia Street, Enugu, Nigeria.

Journal Articles
i. **Ikechukwu Onyenwe**, Ebele Onyedinma, Chidinma Nwafor, Obinna Agbata (2021). *Developing Products Update-Alert System for e-Commerce Websites Users Using HTML Data and Web Scraping Technique*. International Journal on Natural Language Computing (IJNLC), Vol. 10. https://aircconline.com/ijnlc/V10N5/10521ijnlc01.pdf

ii. Obianuju N.L., Agwu N., **Onyenwe I.** (2021) *Medium Resolution Satellite Image Classification System for Land Cover Mapping in Nigeria: A Multi-phase Deep Learning Approach*. In: Arai K. (eds) Intelligent Computing, vol 284. Springer, Cham. https://doi.org/10.1007/978-3-030-80126-7_74.

iii. Nwafor, Chidimma and **Onyenwe Ikechukwu** (2021). *An Automated Mulitple-choice Question Generation Using Natural Language Processing Techniques*. International Journal on Natural Language Computing (IJNLC) Vol, 10.

iv. **Ikechukwu Onyenwe**, Samuel Nwagbo, Njideka Mbeledogu, Ebele Onyedinma (2020). *The impact of political party/candidate on the election results from a sentiment analysis perspective using #AnambraDecides2017 tweets*. Soc. Netw. Anal. Min. **10,** 55 (2020), Springer. https://doi.org/10.1007/s13278-020-00667-2.

v. Ignatius Ezeani, Paul Rayson, **Ikechukwu Onyenwe**, Chinedu Uchechukwu, Mark Hepple (2020). *Igbo-English Machine Translation: An Evaluation Benchmark*. ICLR 2020. Cornell University Computation and Language arXiv arXiv:2004.00648.

vi. Asogwa, D.C., Anigbogu, S.O., **Onyenwe, I.E.** and Sani, F.A., (2019). *Text Classification Using Hybrid Machine Learning Algorithms on Big Data*. International Journal of Trend in Research and Development, Volume 6(5), ISSN: 2394-9333, 2019.

vii. Onyedinma, E., Onyenwe, I., & Inyiama, H. (2019). Performance Evaluation of Histogram Equalization and Fuzzy image Enhancement Techniques on Low Contrast Images. International Journal of Computer Science and Software Engineering (IJCSSE), Volume 8, Issue 7, July 2019.

viii. **Ikechukwu E. Onyenwe**, Mark Hepple, Uchechukwu Chinedu, and Ignatius Ezeani. (2019). *Toward an Effective Igbo Part-of-Speech Tagger*. ACM Trans. Asian Low-Resour. Lang. Inf. Process. 18, 4, Article 42 (May 2019), 26 pages. DOI: https://doi.org/10.1145/3314942.

ix. **Onyenwe Ikechukwu**, E., Onyedinma Ebele, G., & Aniegwu Godwin, E. (2019). *Bootstrapping Method For Developing Part-Of-Speech Tagged Corpus In Low Resource Languages Tagset-A Focus On An African Igbo*. International Journal on Natural Language Computing (IJNLC), 8(1), 13.

x. Ignatius Ezeani, Mark Hepple, **Ikechukwu Onyenwe**, Chioma Enemuo. (*2018). Multi-task Projected Embedding for Igbo*. Text, Speech and Dialogue, TSD 2018, volume 11107, Springer International Publishing.

xi. Ignatius Ezeani, **Ikechukwu Onyenwe** and Mark Hepple. *(2018). Transferred Embeddings for Igbo Similarity, Analogy, and Diacritic Restoration*. Association of Computational Linguistics (ACL), 2018, Pages 30-38.

xii. **Ikechukwu E Onyenwe**, Mark Hepple, Uchechukwu Chinedu, and Ignatius Ezeani. (2018). *A Basic Language Resource Kit Implementation for the IgboNLP Project*. Association for Computing Machinery (ACM) Trans. Asian Low-Resour. Lang. Inf. Process. 17, 2, Article 10 (January 2018), 23 pages. https://doi.org/10.1145/3146387.

xiii. Ezeani, Ignatius, Mark Hepple, **Ikechukwu Onyenwe**, and Enemouh Chioma (2018). *Igbo Diacritic Restoration using Embedding Models*. Association of Computational Linguistics (ACL), Pages 54–60, June 2018.

xiv. Ignatius Ezeani, Mark Hepple and **Ikechukwu Onyenwe**. (2017). *Lexical Disambiguation of Igbo using Diacritic Restoration*. Association of Computational Linguistics (ACL), 2017, Pages 53–60, April 2017.

xv. Chioma Enemouh, Mark Hepple, Ignatius Ezeani, and **Ikechukwu Onyenwe**. (2017). *Morph-Infected Word Detection in Igbo via Bitext*. Widening Natural Language Processing (WiNLP), Association for Computational Linguistics (ACL) 2017.

xvi. **Onyenwe Ikechukwu E**. and Mark Hepple. (2016). *Predicting Morphologically-Complex Unknown Words in Igbo*. Text, Speech, Dialogue (TSD) Springer international -Verlag in Artifcial Intelligence, Volume 9924 1 pp. 206-214. Links: http://eprints.whiterose.ac.uk/117819/.

xvii. Ignatius Ezeani, Mark Hepple, **Ikechukwu Onyenwe**. (2016). *Automatic Restoration of Diacritics for Igbo Language*. Text, Speech, Dialogue (TSD) Springer International -Verlag. Volume 9924 1. Links: http://eprints.whiterose.ac.uk/117833/. https://doi.org/10.1007/978-3-319-45510-5_24.

xviii. **Onyenwe Ikechukwu**, Mark Hepple and Chinedu Uchechukwu. (2016). *Improving Accuracy of Igbo Corpus Annotation Using Morphological Reconstruction and Transformation-Based Learning*. TALAf 2016: Traitement Automatique des Langues Africaines (TALAf 2016: African Language Processing), JEP-TALN-RECITAL 2016 at Inalco, Paris, 2016. Publisher: ATALA/AFCP, pages 1-10. https://jep-taln2016.limsi.fr/actes/Actes%20JTR-2016/V11-TALAF.pdf.

xix. **Onyenwe Ikechukwu**, Mark Hepple, Chinedu Uchechukwu, and Ignatius Ezeani. (2015). *Use of Transformation-Based Learning in Annotation Pipeline of Igbo, an African Language*. Association of Computational Linguistics (ACL), Pages: 24–33, September 2015.

xx. **Onyenwe Ikechukwu E.**, Chinedu Uchechukwu, and Mark Hepple. (2014). *Part-of-speech Tagset and Corpus Development for Igbo, an African*. Association of Computational Linguistics (ACL), Pages: 93–98, August 2014.

xxi. M.O. Onyesolu, **I.E. Onyenwe**, and D. Edebeatu. (2011). *Using Multi Server Queing Model to Improve Service Delivery*. Journal of Basic Physical Research, Vol.2, No.1, pp 50-56, June 2011.

Conferences

i. **Key Paper Speaker:**

1. IKECHUKWU E. ONYENWE (2020). *Sentiment Analysis (SA): Tool for Measuring Customer's Satisfaction in POST COVID-19 business ERA*. The IT response sub-theme workshop in International e-Conference on Alternative Business Models for Emerging Enterprises and Businesses In Post Covid-19 Era, Technical Session. At School of Financial Studies, Federal Polytechnic, Oko.

2. IKECHUKWU E. ONYENWE (2020). *The Anglican Teacher in the Post Covid-19 Era: The New Normal*. A conference of All Anglican Teachers at All Saints Cathedral, Onitsha.

ii. David Wright and Ikechukwu E. Onyenwe (2018). *Predatory discourses and the incitement of violence against women in an online discussion forum*. The 9th Inter-Varietal Applied Corpus Studies (IVACS) Conference Language, Communities & Mobility, University of Malta June 13 – 15 2018. Links: https://twitter.com/IVACS2018/status/1004347172928802819, http://www.ivacs.mic.ul.ie/wp-content/uploads/2018/05/IVACS2018DRAFTprogramme1-1.pdf.

iii. Ikechukwu Onyenwe, Ignatius Ezeani and Chioma Enemouh. 2017. *Sustainable Development Goals (SDGs) in Africa Via Language Technology*. First postgraduate conference of All African Postgraduate Research Group (AAPoRG). Africa in the Era of Sustainable Growth. University of Sheffield. Links: https://www.sheffield.ac.uk/socstudies/events/aaporg-conference-2017.

iv. **Onyenwe Ikechukwu E**. and Mark Hepple. (2016). *Predicting Morphologically-Complex Unknown Words in Igbo*. Community-based Building of Language Resources (CBBLR). (*The best papers which succeeded in both review processes (by the TSD 2016 PC and CBBLR Workshop 2016 PC) will be published in the TSD 2016 Springer and CBBLR Proceedings*).

v. Onyenwe Ikechukwu. (2013). *Natural Language Processing For Igbo*. Abstract presented at the Computer Science Research Retreat of the University of Sheffield.

vi. Onyenwe Ikechukwu. (2013). *Research Ethics in the University Community*. Poster presentation on Research Ethics and Integrity Workshop of the Faculty of Engineering, University of Sheffield.

Technical Report

1. Onyenwe Ikechukwu E. (2014). *Developing Natural Language Processing Tools forn Low Resource languages: A Focus on Igbo*. A Technical Report for Ph.D. transfer review of the Computer Science department, University of Sheffield, United Kingdom.

G. Scholarly Profile

1. https://www.scopus.com/authid/detail.uri?authorId=57192832354 – *Scopus*.
2. *https://scholar.google.co.uk/citations?user=ekjK694AAAAJ&hl=en* **-- Google Scholar**.
3. https://dl.acm.org/author_page.cfm?id=99659236558 -- **Association for Computing Machinery (ACM) Author Page**.
4. https://orcid.org/0000-0002-9727-7297 – Orcid.
5. https://aclanthology.coli.uni-saarland.de/people/ikechukwu-onyenwe -- **Association of Computational Linguistic (ACL)**.
6. http://dblp.org/pers/hd/o/Onyenwe:Ikechukwu_E= -- **Computer Science Bibliography**.
7. https://www.semanticscholar.org/author/Ikechukwu-E.-Onyenwe/3452626 -- **Semantic Scholar**.
8. http://aflat.org/users/onyenwe -- **African Language Technology**.
9. https://www.researchgate.net/profile/Ikechukwu_Onyenwe **– Researchgate**.
10. http://unizik.academia.edu/IkechukwuOnyenwe **– Academia**.

11. https://github.com/Iykeln – **GitHub**.
12. https://bit.ly/2kMZzh1 - **Microsoft Academic**.
13. https://www.aminer.org/profile/onyenwe-ikechukwu/53f445b2dabfaeb22f4bccbc – **Aminer**.

H. International/Local Conferences/Workshops/Training/Developments Attended

i.   *Conference Of The Nigerian Association Of Teachers Of German*. DAAD, German and NAU at Faculty of Art, Nnamdi Azikiwe University. July 2021.

ii. *1st Workshop on Sense, Concept and Entity Representations and their Applications* at Valencia, Spain. April 2017.

iii. *Africa in the Era of Susutainable Growth*. First postgraduate conference of All African Postgraduate Research Group (AAPoRG), University of Sheffield, S1 3JD.

iv. *19th International Conference, Text, Speech, and Dialogue (TSD)*. Faculty of Applied Sciences University of West Bohemia Pilsen and Faculty of Informatics Masaryk University Brno, Czech Republic, September 12-16, 2016.

v.   *Traitement automatique des langues africaines (TALAf) (Automatic processing of African languages) workshop* in JEP-TALN-RECITAL 2016, Paris, France Inalco, Paris, 4-8 Juillet 2016.

vi. *10th International Conference on "Recent Advances in Natural Language   Processing".* (RANLP 2015) in Hissar, Bulgaria, 7–9 September 2015.

vii. *The 25th International Conference on Computational Linguistics (COLING) and 8th Linguistic Annotation Workshop* 2014 held 23-24 August 2014, Dublin, Ireland.

viii. *Conduct research and result evaluation*. Doctoral Development Programme (DDP), Computer Science Department of the University of Sheffield.

ix. *Relevant Industry recognised equipment and/or software*. Doctoral Development Programme (DDP), Computer Science Department of the University of Sheffield. Attended 6th GATE Training Course - June 2013. GATE is an open source Natural Language Processing tool developed by the Computer Science Department of the University of Sheffield.

x.   *Compile a literature database and compose a list of references quickly and easily in any standard format using LaTeX/Bibtex*. DDP, Computer Science Department of the University of Sheffield.

xi. *Conference Oral/Poster Presentations and Discussions*: Attended Research Retreats of Computer Science Department in The University of Sheffield (23rd May 2013, 22nd May 2014, and 9th June 2015).

xii. *Manage the research process – time and project management skills*. DDP, Computer Science Department of the University of Sheffield.

xiii. *Demonstrating good scientific research ethics and practice, why it is important and how to avoid plagiarism*. Attended Research Ethics and Integrity 2013/2014 of the University of Sheffield training on how to do responsible referencing and attribution.

xiv. *Query and data visualization tools*. DDP, Computer Science Department of the University of Sheffield. Attended 6th GATE Training Course - June 2013. GATE is an open source Natural Language Processing tool.

xv. *South East ICT Workshop for Tertiary Institutions*, Funded by NITDA, and organized by the Digital Bridge at the Digital Library, Nnamdi Azikwe University, 2012. Attended as Trainer and Trainee.

xvi. *Research Methodology Seminar* organized by the Postgraduate School of Nnamdi Azikiwe University, at PG hall , 2010.

I. ACADEMIC LEADERSHIP

GRANTS/COLLABORATIONS:

i. **FaceBook Project**: Building a public IGBO-ENGLISH machine translation benchmark Project: [$23,750] Funded by Facebook to be executed by IgboNLP Team, 2019.
    Article: **Ignatius Ezeani, Paul Rayson, Ikechukwu Onyenwe, Chinedu Uchechukwu, Mark Hepple** (2020). *Igbo-English Machine Translation: An Evaluation Benchmark*. ICLR 2020. Cornell University Computation and Language arXiv arXiv:2004.00648.

ii. **Technical support**: 'This is England, speak English!': a corpus-assisted critical study of language ideologies in the right-leaning British press. https://www.tandfonline.com/doi/abs/10.1080/17405904.2018.1511439?journalCode=rcds20

iii. **Research Fellow**: The incitement of violent offences against women in online discussion forums: [£9,721] from BA/Leverhulme Small Research Grants for project entitled. Principal Investigator Dr David Wright at School of Arts of Nottingham Trent University, United Kingdom.
    Conference Paper: Wright, D. and Onyenwe, I. E. (2018). Predatory discourses and the incitement of violence against women in an online discussion forum. Paper presented at The 9th Inter-Varietal Applied Corpus Studies (IVACS) International Conference, University of Malta, 13-15 June, 2018.

iv. **PhD Scholar**: TETFund, Nigeria: [£26,000] Funded PhD research program at the University of Sheffield UK, 2013.

SUCCESSFUL PG SUPERVISION
Masters

v. **Chidinma Nwafor, 2014516004F**. *Development of an Automated CBTE Questions Generation Using Natural Language Processing Techniques. Oral viva date:* July 22, 2021. See publication #**iii** in the Journal article list.

J. VC Appointments/Services to the University Community

i. **Chairman**, Faculty of Physical Sciences Grants Committee, August 2021.

ii. **Member**, Faculty of Physical Sciences Career/Counselling Committe, August 2021.

iii. **Coordinator**, African International School for Computation, Modelling and Simulation (AISCMS) appointed by the Vice-Chancellor, June 2021.

iv. **Member**, Local Organizing Committee (LOC) consituted by the Vice-Chancellor for the African International School for Computation, Modelling and Simulation (AISCMS), June 2021.

v. **Member**, Exam Monitoring Team of Faculty of Physical Sciences, 2018.

vi. **Member**, Seminar Secretariat Committee for Faculty of Physical Sciences, 2018.

vii. **Member**, Natural Language Processing (NLP) seminar group in Computer Science of The University of Sheffield. April 2013 - April 2017.

viii. **Assistant Secretary**, Department of Computer Science for 2012/2013 Academic year.

ix. **Memeber**, course review committee in the department of Computer Science, 2011/2012.

x. **Member**, Faculty of Physical Sciences UMIIT in Nnamdi Azikiwe University. 2011 Session.

xi. **Member**, Vice Chancellor's Committee/Boards for 2009/2010 Academic Year for Chike Okoli Centre for Entrepreneurial Studies in Nnamdi Azikiwe University.

xii. **Member**, Vice Chancellor's Committee/Boards for 2010/2011 Academic Year for Chike Okoli Centre for Entrepreneurial Studies in Nnamdi Azikiwe University.

xiii. **Member**, Committee on Development of Software for Result Computation in Nnamdi Azikiwe University. 2009.

xiv. **Commendation Letter** from Nnamdi Azikiwe University Management for successful development and deployment of the new web application for the University. 3 February 2010.

K. Editor/Reviewer Services
i. **Editor**, International Journal on Natural Language Computing (IJNLC). http://airccse.org/journal/ijnlc/editorialboard.html.
ii. **Editor/Secretary**, Faculty of Physical Sciences Journal, Nnamdi Azikiwe University, Awka. 2018.
iii. **Reviewer**, Association for Computing Machinery (ACM) CoRI 2016 (http://acmng.acm.org/).
iv. **Reviewer**, Science Journal of Faculty of Science, Ebonyi State University.
v. **Reviewer**, Journal of Information Sciences, a SAGE journal.

L. Professional Membership
ii. Association for Computing Machinery Professional Member Since 2017. Member number: 2961382.
iii. Nigeria Computer Society (NCS) Since 2020. Member number: 11646.
iv. Member, African Language Technology (http://afat.org/). 2016 - present.
v. Member, University of Sheffield Alumni. Membership number: 271092. July 2017 – Date.
vi. Member, Unizik Alumni Association. 2007 – Date.

M. Appointments/Services Outside the University
1. **Appointment: Special Committee on Award Giving Service**, Christ Church Eziagulu Ekwulobia in Aguata LGA. To organize service of honour on those who have played prominent role in the advent, spread and stable of Gospel in Ekwulobia and Eziagulu.

N. Inventions
1. Started IgboNLP/WAZOBIA-NLP researches (https://github.com/Iykeln), an artificial Intelligence and interdisciplinary based research that develops automated methods and resources for automatic processing of Igbo, Hausa and Yoruba texual data. Curently, we are partnering with other renowned professionals in the field, such as Sketch Engine (https://www.sketchengine.eu/igbo-part-of-speech-tagset/) and Lancaster University.
2. AI-Based CBT-Q for Computer-Based Test Examination and Automatic Question Generation. Currently in use at NAU.

O. Honours and Awards
i. PHD Scholarship Award from Tertiary Education Trust Fund, Nigeria. April 2013 - 2016.
ii. Award for Profciency in Physics (Secondary School - Bishop Crowther Seminary, Awka). 1996/97.
iii. Award for Profciency in C.R. (Secondary School - Bishop Crowther Seminary, Awka). 1995/96.
iv. Award for Profciency in Physics (Secondary School - Bishop Crowther Seminary, Awka). 1995/96.
v. Award for Profciency in Physics (Secondary School - Bishop Crowther Seminary, Awka). 1994/95.

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Ikechukwu E. Onyenwe, PhD.   Date