

# David Ifeoluwa ADELANI

## PERSONAL DATA

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PLACE OF BIRTH: Abeokuta, Nigeria  
ADDRESS: Saarbrücken, Germany  
EMAIL: [s8daadel@stud.uni-saarland.de](mailto:s8daadel@stud.uni-saarland.de), [didelani@lsv.uni-saarland.de](mailto:didelani@lsv.uni-saarland.de)

## EDUCATION

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JAN 2019 - *Present* Dissertation Phase of Doctoral Studies  
**Spoken Language Systems Group, Saarland Informatics Campus, Germany**  
ADVISOR: Prof. Dr. Dietrich Klakow

APR 2015 - *DEC 2018* Preparatory Phase of Doctoral Studies  
**Saarbrücken Graduate School of Computer Science, Germany**  
GPA: 1.6 (Best 1.0, Worst 5.0)

JUL 2013 - *DEC 2014* Master of Science in COMPUTER SCIENCE  
**African University of Science and Technology (AUST), Abuja, Nigeria**  
Thesis: "A DEVS-Based ANN Training and Prediction Platform" | Advisor: M.K. TRAORE  
GPA: 3.91/4

OCT 2006 - *OCT 2010* Bachelor of Science in COMPUTER SCIENCE  
**Federal University of Agriculture, Abeokuta, Nigeria**  
Thesis: "Securing E-voting with EC-ELGAMAL" | Advisor: A.S. SODIYA  
GPA: 4.42/5

## WORK EXPERIENCE

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JAN 2019 - TILL DATE	PhD Researcher (Group: Spoken Language Systems Group) <i>Department of Language Science &amp; Technology, Saarland University</i> Supported by the <a href="#">COMPRISE</a> (Cost-effective, Multilingual, Privacy-driven voice-enabled Services) project
JAN 2019 - APR 2019	Research Intern (Group: Echizen's Content Security Lab) <i>National Institute of Informatics (NII)</i> Internship on Adversarial Text Generation with Prof. Isao Echizen
MAR 2017 - DEC 2018	Research Assistant (Group: Networked Systems Research Group) <i>Max Planck Institute for Software System (MPI-SWS)</i> Supported by MPI-SWS Pre-Doctoral Scholarship for 22 months for working on topic modeling and causal inference in social media with Dr. Przemysław Grabowicz
AUG 2016- MAR 2017	Research Assistant (Group: Intelligent User Interfaces) <i>German Research Centre for Artificial Intelligence (DFKI)</i> Deep learning and Case-Based Reasoning for Energy Power Forecast [10 hours/week]
JUL 2012 - APR 2015	Computer Scientist II (Lead of Database Group) <i>Federal Ministry of Communication Technology, Nigeria</i>
APR 2011 - JUL 2012	Professional Service Consultant (Junior) <i>NCR (NIGERIA) PLC.</i>

## RESEARCH INTERESTS

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Natural Language Processing (NLP)  
Privacy-preserving machine learning  
NLP for low-resource languages  
Secure Machine Learning  
Computational social science

## TEACHING EXPERIENCE

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TEACHING ASSISTANT: Neural Networks: Implementation and Application - Winter Semester 17/18  
Saarland University (with Prof. Dr. Dietrich Klakow)  
TEACHING ASSISTANT: Statistical Natural Language Processing - Summer 2017  
Saarland University (with Prof. Dr. Dietrich Klakow)

## OTHER RESEARCH PROJECTS (RESEARCH IMMERSION - 180 HOURS)

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OCT 2016 - JAN 2017. Detecting Events in Social Media using Non-parametric Bayesian Methods  
(with Dr. Przemyslaw Grabowicz @ MPI-SWS)  
MAY 2016 - SEP 2016. Neural Networks for Semantic Role Prediction  
(with Prof. Dr. Vera Demberg)

## AWARDS, SCHOLARSHIPS AND CERTIFICATES

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OCT. 2019 Attended the PRAIRIE AI summer school (fully funded) in Paris (October 3 - 5)  
MAY. 2019 Invited to Google's 3rd European NLP Summit in Zurich (June 24 - 26)  
MAY. 2019 Best Poster Presentation Award at the Web Conference (formerly WWW) 2019  
OCT. 2018 PyTorch Scholarship Challenge 2018/2019 from Facebook and Udacity  
JUN. 2018 NII International Internship Program, Japan (February - April 2019)  
MAR. 2017 MPI-SWS Pre-Doctoral Studies Scholarship (ended December 2018)  
APR. 2015 Saarbrücken Graduate School of Computer Science Full Scholarship (ended Mar 2017)  
JUL. 2013 Nelson Mandela Institute (NMI) Full Scholarship for MSc in Computer Science (\$22,500)  
DEC. 2012 Oracle Database 11g Certified Professional (OCP)  
AUG. 2012 Oracle Database 11g Certified Associate (OCA)

## COMPUTER SKILLS

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Programming: Python, JAVA, R, HTML, JavaScript, and PHP  
Frameworks: [Pandas](#), [Statsmodel](#), [Gensim](#), [TensorFlow](#), [Keras](#), [PyTorch](#), and [scikit-learn](#)  
Databases: Oracle Database 11g, Microsoft SQL Server, MySQL, and Access

## VOLUNTEER SERVICE

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Mentor at [Data Science Nigeria](#)  
Volunteer for [Yoruba multimedia dictionary project](#) for Natural Language Processing tasks

## FAVOURITE QUOTE

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Anything you find your hands doing, do it with all your might

## PUBLICATIONS

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1. Michael A. Hedderich, David Ifeoluwa Adelani, Dawei Zhu, Jesujoba O. Alabi, Udia Markus, and Dietrich Klakow. Transfer learning and distant supervision for multilingual transformer models: A study on african languages. In *EMNLP*, 2020
2. David Ifeoluwa Adelani, Ryota Kobayashi, Ingmar Weber, and Przemyslaw A. Grabowicz. Estimating community feedback effect on topic choice in social media with predictive modeling. In *EPJ Data Science*, 2020
3. David Ifeoluwa Adelani, Ali Davody, Thomas Kleinbauer, and Dietrich Klakow. Privacy guarantees for de-identifying text transformations. In *Interspeech*, 2020
4. Aleena Thomas, David Ifeoluwa Adelani, Ali Davody, Aditya Mogadala, and Dietrich Klakow. Investigating the impact of pre-trained word embeddings on memorization in neural networks. In *In Proceedings of the 23rd International Conference on Text, Speech and Dialogue (TSD)*, 2020
5. David Ifeoluwa Adelani\*, Michael A. Hedderich\*, Dawei Zhu\*, Esther van den Berg, and Dietrich Klakow. Distant supervision and noisy label learning for low resource named entity recognition: A study on Hausa and Yorùbá, Practical ML for Developing Countries Workshop at ICLR 2020
6. Iroro Orife, David I. Adelani, Timi Fasubaa, Victor Williamson, Wuraola Fisayo Oyewusi, Olamilekan Wahab, and Kola Tubosun. Improving Yorùbá diacritic restoration, AfircaNLP Workshop at ICLR 2020
7. Ernie Chang, David Ifeoluwa Adelani, Xiaoyu Shen, and Vera Demberg. Unsupervised pidgin text generation by pivoting english data and self-training, AfircaNLP Workshop at ICLR 2020
8. Jesujoba O. Alabi, Kwabena Amponsah-Kaakyire, David I. Adelani, and Cristina España-Bonet. Massive vs. curated word embeddings for low-resourced languages. the case of Yorùbá and Twi. In *12th International Conference on Language Resources and Evaluation (LREC)*, 2020
9. David Ifeoluwa Adelani, Haotian Mai, Fuming Fang, Huy H. Nguyen, Junichi Yamagishi, and Isao Echizen. Generating sentiment-preserving fake online reviews using neural language models and their human- and machine-based detection. In *34th International Conference on Advanced Information Networking and Applications (AINA)*, 2020
10. Zijian Wang, Scott Hale, David Ifeoluwa Adelani, Przemyslaw Grabowicz, Timo Hartmann, Fabian Flöck, and David Jurgens. Demographic inference and representative population estimates from multilingual social media data. In *The Web conference*. ACM, 2019
11. David Ifeoluwa Adelani, Fabian Flöck, Przemyslaw Grabowicz, Scott Hale, Timo Hartmann, and David Jurgens. Agendas on social media: Inferring policy attention from non-representative data. International Conference on Computational Social Science (IC2S2) 2018. Extended Abstract
12. David Ifeoluwa Adelani and Mamadou Kaba Traore. Enhancing the reusability and interoperability of artificial neural networks with DEVS modeling and simulation. *International Journal of Modeling, Simulation, and Scientific Computing*, 7(3), 2015

13. Adesina Simon Sodiya, SA Onashoga, and DI Adelani. A secure e-voting architecture. In *Information Technology: New Generations (ITNG), 2011 Eighth International Conference on*, pages 342–347. IEEE, 2011