

# David Ifeoluwa ADELANI

## PERSONAL DATA

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PLACE OF BIRTH: Abeokuta, Nigeria  
ADDRESS: Saarbrücken, Germany  
EMAIL: [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  
NLP for social good  
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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APR. 2021 Best Paper Award at the AfricaNLP Workshop @EACL 2021 for the MasakhaNER paper  
JUN. 2020 AI4D Fellowship to create English-Yorùbá Corpus for Machine Translation  
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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Reviewer for The Web Conference 2018 (sub-reviewer), AfricaNLP Workshop (2020, 2021)  
EACL SRW 2021, WeaSUL @ICLR 2021, NAACL 2021, EMNLP 2021  
Mentor at [Data Science Nigeria](#)  
Active Member of [Masakhane](#) NLP for African languages

## FAVOURITE QUOTE

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

## PUBLICATIONS

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1. David I. Adelani, Jesujoba O. Alabi Dana Ruiter, Damilola Adebajo, Adesina Ayeni, Mofe Adeyemi, Ayodele Awokoya, and Cristina España-Bonet. The Effect of Domain and Diacritics in Yorùbá-English Neural Machine Translation. In *MT Summit*, 2021
2. David Ifeoluwa Adelani, Jade Abbott, Graham Neubig, Daniel D'souza, Julia Kreutzer, Constantine Lignos, Chester Palen-Michel, Happy Buzaaba, Shruti Rijhwani, Sebastian Ruder, Stephen Mayhew, Israel Abebe Azime, Shamsuddeen Muhammad, Chris Chinenye Emezue, Joyce Nakatumba-Nabende, Perez Ogayo, Anuoluwapo Aremu, Catherine Gitau, Derguene Mbaye, Jesujoba Alabi, Seid Muhie Yimam, Tajuddeen Gwadabe, Ignatius Ezeani, Rubungo Andre Niyongabo, Jonathan Mukiibi, Verrah Otiende, Iroko Orife, Davis David, Samba Ngom, Tosin Adewumi, Paul Rayson, Mofetoluwa Adeyemi, Gerald Muriuki, Emmanuel Anebi, Chiamaka Chukwunke, Nkiruka Odu, Eric Peter Wairagala, Samuel Oyerinde, Clemencia Siro, Tobius Saul Bateesa, Temilola Oloyede, Yvonne Wambui, Victor Akinode, Deborah Nabagereka, Maurice Katusiime, Ayodele Awokoya, Mouhamadane MBOUP, Dibora Gebreyohannes, Henok Tilaye, Kelechi Nwaike, Degaga Wolde, Abdoulaye Faye, Blessing Sibanda, Orevaoghene Ahia, Bonaventure F. P. Dossou, Kelechi Ogueji, Thierno Ibrahima DIOP, Abdoulaye Diallo, Adewale Akinfaderin, Tendai Marengereke, and Salomey Osei. MasakhaNER: Named Entity Recognition for African Languages . In *TACL*, 2021 (Also accepted at AfricaNLP Workshop @ EACL 2021)
3. David I. Adelani, Jesujoba O. Alabi Dana Ruiter, Damilola Adebajo, Adesina Ayeni, Mofe Adeyemi, Ayodele Awokoya, and Cristina España-Bonet. MENYO-20k: A Multi-domain English-Yorùbá Corpus for Machine Translation and Domain Adaptation. In *AfricaNLP Workshop @EACL*, 2021
4. Kathleen Siminyu, Godson Kalipe, Davor Orlic, Jade Abbott, Vukosi Marivate, Sackey Freshia, Prateek Sibal, Bhanu Neupane, David I. Adelani, Amelia Taylor, Jamiil Toure Ali, Kevin Degila, Momboladji Balogoun, Thierno Ibrahima DIOP, Davis David, Chayma Fourati, Hatem Haddad, and Malek Naski. AI4D – African Language Program. In *AfricaNLP Workshop at EACL*, 2021
5. Michael A. Hedderich, David Ifeoluwa Adelani, Dawei Zhu, Jesujoba O. Alabi, Udia Markus, and Dietrich Klakow. Transfer learning and distant supervision for multi-lingual transformer models: A study on african languages. In *EMNLP*, 2020
6. 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 (Also accepted at IC2S2 2021 as Extended Abstract)
7. David Ifeoluwa Adelani, Ali Davody, Thomas Kleinbauer, and Dietrich Klakow. Privacy guarantees for de-identifying text transformations. In *Interspeech*, 2020
8. 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
9. 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
10. Iroko 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
11. 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

12. 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
13. 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
14. 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 (Also accepted at IC2S2 2019 as Extended Abstract)
15. 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
16. 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
17. 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