

## **Daniel Lwanzo PALUKU**

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### **EDUCATION**

- 2021 Bachelor of Science (Bakalavr), Kazan State Power Engineering University (KSPEU), Kazan, Russia. Concentration: Mechanical and Energy Engineering. GPA 5.0/5.0 – Red Diploma (Summa cum laude - Graduated with the highest honors)
- 2020 Princeton University - Summer School on Condensed Matter Physics with Princeton Center for Complex Materials.
- 2016 Diploma in Russian language at Kazan National Research Technical University named after A.N. Tupolev (Kazan – Russia).
- 2017 Russian Presidential Academy of National Economy and Public Administration (RANEPA).
- 2015 High School Diploma in Bio-Chemistry, Groupe Scolaire du Mont-Amba, Kinshasa, D.R. Congo, Ranked 1st in Graduating Class among 200 students.

### **RESEARCH EXPERIENCE**

- 2020-2021 Undergraduate Researcher; Advisor: Dr. Olga V. Soloveva  
Using Computational Fluid Dynamics (ANSYS) for the modelization of various technological processes.
- 2020 Undergraduate Research experience with Prof. Denis S. Balzamov  
Investigated the increase use of condensate instead of highly demineralized water for waste heat boilers.
- 2019 Undergraduate Research experience with Prof. Guzel B. Sayfutdinova  
Proposed the increase of Renewable Energy distribution in Russia.
- 2018 Undergraduate Research experience with Prof. Nail F. Timerbaev  
Contributed to the first wind farm project in the Republic of Tatarstan, Russia.

### **TEACHING AND TUTORING**

- 2019-2020 English and French Teaching appointment for the language school Need4speak.
- 2019 Volunteer Tutor during World Skills Competition in Kazan.
- 2018 Volunteer Tutor at the Kazan Multi-Sport exposition.

### **LEADERSHIPS**

- 2021 Organizer and initiator of the International Anti-Conference “It’s possible” at Kazan State Power Engineering University willing to present existing scientific opportunities for international students in Russia. The anti-conference has been featured by the Russian Ministry of Science and Education.
- 2019-2021 Vice-President of the Association of foreign students of Kazan State Power Engineering University.
- 2019-Present Spokesman of BEBUC Scholarship’s External Scholars (BEBUC Scholarship is an excellence Scholarship Program supporting and mentoring young students until they become professors of Universities to renew the academic staffs in the DR Congo)
- 2017-2019 Spokesman of the Association of Congolese Students in Kazan, Russia.
- 2014 - 2015 Spokesman for Mont-Amba BEBUC Scholarship’s Scholars, Kinshasa, D.R. Congo.

### **AWARDS**

- 2021 Best Graduate of the Class of 2021 highly involved in scientific activities at Kazan State Power Engineering University.
- 2021 Top 4 Best International Students in the Russian Republic of Tatarstan for 2020 among approximately 8000 students.

2019-2020 Presidential Scholarship of Kazan State Power Engineering University.

2019 Top 3 Best Students in Material Science of 2nd year in Energy and Mechanical Engineering at Kazan State Power Engineering University among 115 students.

2019 Top 5 Best Students in Applied Mechanics of 2nd year in Energy and mechanical engineering at Kazan State Power Engineering University among 28 students.

2018 Contest winner - Renewable Energy Sources of Lomonosov Moscow State University out of 74 participants.

2018 Gold Medal of - 6th Russian Language International Olympiad for foreign students.

2016 Scholarship of the Russian Government for Bachelor Studies in Russia.

2013-Present BEBUC Scholarship German-Congolese NGO "JUNIKIN".

2014 COMENGA High School Media Challenge winner with Groupe Scolaire du Mont Amba, German-African Media Camp, Bremen, Germany.

### **PUBLICATIONS**

CFD simulation of the ethylbenzene dehydrogenation reaction in the fixed bed reactor with a cylindrical catalyst of various sizes (with S.A. Solovyev, O.V. Soloveva, A.A. Lamberov). (Accepted for publication in Chemical Product and Process Modeling).

Increased use of a condensate instead of highly demineralized water to prepare feed water for the waste heat boilers (with D.S. Balzamov, E. Yu Balzamova, V.V. Bronskaya, O.S. Kharitonova). Conference Series: Materials Science and Engineering (MSE), 1047 012173.

Application of Renewable Energy Sources in Resource Saving Russian Power Engineering (with G.B. Sayfutdinova). International Journal of Humanities and Natural Science, April 2019, 4(3): 34--37.

Prospects for the development of Wind Energy in The Republic of Tatarstan (with Timerbaev N.F.). Renewable Energy Sources: *Proceedings of the All-Russian Scientific Conference with International Participation and of the XI Scientific Youth School* – Moscow: MAKSS Press. December 2018, 292--296.

Problems of adaptation of foreign students in Russia – The case of Kazan City (with Shakirova D.M.). Omega Science: International Center for Innovative Research – Ufa. *Collection of articles of the International scientific conference*. January 2019, 234--238.

### **TALKS AND CONFERENCES**

2021 International Anti-Conference «It's possible » at Kazan State Power Engineering University in Kazan, Russia.

2019 Seminar of graduate students of Kazan State Power Engineering University, in Kazan, Russia "Pedagogical methods in the preparation of technical specialists/engineers according to Lobachevsky".

2019 BEBUC Scholarship's Conference in Lausanne, Switzerland "La Suisse rencontre la R.D. Congo et la R.D. Congo rencontre la Suisse".

2018 Scientific conference on Renewable Energy Sources organized by the Faculty of Geography of the Lomonosov Moscow State University (the first University in Russia). Presentation: "Prospects for the development of Wind Energy in the Republic of Tatarstan".

2018 Youth Conference in Sharm El Sheikh, Egypt.

2018 Business Conference "Russia – Africa" Ministry of Economy and Development of the Russian Federation, Moscow, Russia.

2017 Russian-Chinese Congress of Young Entrepreneurs in Kazan, Russia.

### **LANGUAGES**

English (excellent), Swahili (native language), French (native language), Russian (excellent), Lingala (excellent).