

## Juan José Díaz Baquero

Award winning Industrial engineer with masters from top-tier Latin American university and experience in data analysis and consulting

Mobile: +49 15153225706

E-mail: [jjdiazb42@gmail.com](mailto:jjdiazb42@gmail.com)

Address: Usedomer Str. 6II, 13355 Berlin

LinkedIn: [linkedin.com/in/juan-jose-diaz/](https://www.linkedin.com/in/juan-jose-diaz/)

Nationality: Colombian

Portfolio: [jj-diaz1067.github.io/](https://jj-diaz1067.github.io/)

---

### EXPERIENCE

---

#### **Simulation Engineer** (November 2017 – June 2018)

- Xynergy Consulting, Bogotá D.C.
- Single project consulting job to build a simulation model of the production processes for a bouquet assembler
- Identified improvement opportunities and evaluated their impact in the model, the company gained knowledge of efficient use of personnel in high season of demand with potential savings of 30% in some processes

#### **Data Analyst** (June 2017 – August 2017)

- Upside consulting SAS, Bogotá D.C.
- Single project consulting to create a large data base to support corporate strategy of an energy sector company
- Created a large data base and used interactive visualizations to identify attractive investment opportunities
- Gained knowledge of energy consume market in Latin-America

#### **Graduated Teaching assistant** (June 2015 – June 2018)

- Universidad de los Andes, Bogotá D.C.
  - Courses: Stochastic processes and Advanced techniques in computer simulation
  - Design real-life case studies and later guide students to follow six sigma methodology to solved the case
  - Give reinforcement classes, create web-tutorials, grade activities and courses logistics
- 

### ACCOMPLISHMENTS:

---

#### **INFORMS OR & ANALYTICS Student Team Competition Second Place Winner** (April 2018)

- 8 finalists presented in 2018 INFORMS Conference on Business Analytics & Operations Research
- Solving portfolio optimization problem under non-linear and computing time constraints
- Worked in a 6 person team, we applied state-of-the-art optimization techniques with metaheuristics
- Created a visualization tool to explore results and give insight of the portfolio performance through time

#### **Master's Thesis** (August 2016 – May 2018)

- aiRe - Making Air Quality Data Analysis Simple, Accessible and Repeatable through R Web-Based Applications
- Create data-based visualizations to support communication capabilities from environmental authorities

#### **Simio Student Competition Second Place Winner** (May 2017)

- For modeling Pulp and paper optimization of logistics problem with simulation
- Participation included 220 teams and 624 students from 11 countries

#### **Simio Student Competition Third Place Winner** (December 2016)

- For modeling Warehouse distribution problem with simulation-optimization
- Participation included 250 teams and 868 students from 14 countries

#### **Simio Student Competition Second Place Winner** (December 2015)

- For modeling Urgent care center problem with simulation-optimization
  - Participation included 142 teams and 460 students
- 

### ACADEMIC FORMATION

---

#### **Master in Industrial engineering** (August 2016 – May 2018)

- Emphasis in business analytics and finance
- Universidad de los Andes, Bogotá D. C.
- GPA: 4.59/5

#### **Bachelor degree in Software and Computing Engineering** (June 2012 – December 2017)

- Emphasis in business intelligence
- Universidad de los Andes, Bogotá D. C.

#### **Bachelor degree in Industrial Engineering** (January 2012 – June 2016)

- Emphasis in simulation and statistics
  - Universidad de los Andes, Bogotá D. C.
-

---

## SKILLS

---

### Programming languages:

- R: advanced proficiency
- Python: advanced proficiency
- Java: advanced proficiency

### Relevant courses:

- Big data analytics
- Visual Analytics
- Business Intelligence
- Advanced techniques in computer simulation
- Management of financial risk

### Languages:

- Spanish: native proficiency
  - English: Advanced proficiency
  - German: Intermediate proficiency
- 

## REFERENCES

---

Ivan Mura, Ph.D.

- Associate Professor
- Director of the Analytics M.Sc. program
- Universidad de los Andes, Bogotá
- E-mail: i.mura@uniandes.edu.co

Raha Akhavan-Tabatabaei, Ph.D.

- Associate Professor
- Sabanci School of Management
- E-mail: akhavan@sabanciuniv.edu