William Truong

Data Scientist & Lighting Engineer

A lighting engineer specialised in developing data science apps to support business decision making

Contact

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LinkedIn
Web Portfolio

Education

Ph.D., TU Darmstadt
M.Sc., KIT (Karlsruhe)
B.Sc., KIT (Karlsruhe)

Skills

R & Shiny (Tidyverse)
Python (Numpy, Pandas)
SQL
AWS & Cloud
Git & Docker
Time Series Forecasting
Modeling (ML)

Work Experience

Lighting Engineer

PRACHT (Alfred Pracht Lichttechnik GmbH, PIT GmbH)
2014 - Present

- Used data-driven models to estimate lighting data of luminaire, LED-modules and LED-packages
- Deployed an app to estimate the power consumption of industrial
- Develops luminaires, creates and manage technical data, introduced PIM-system
- Performs product certifications (ENEC, CE, UKCA)
- Establishing and running of a lighting laboratory
- Sample Project 1: Estimate Luminaire Data Application (R, Shiny)
- Sample Project 2: Power Consumption Application (R, Shiny)

Internship

Polytec GmbH
2012 - 2013

- Use of Laser-Doppler-Vibrometry to measure motion via optical flow.

Research

Human-Centric-Lighting

Technical University of Darmstadt
2017 - 2021

- Modeling of the Circadian Stimulus with photometric and colorimetric quantities
- Investigation of light influence on sleep quality and sleepiness of early shift workers

Publications

Journal articles

- Circadian metric -- Computation of circadian stimulus using illuminance, correlated colour temperature and colour rendering index, *Building and Environment 2020*
- Circadian stimulus – A computation model with photometric and colorimetric quantities, *Lighting Research & Technology 2019*
- Modelling of indium(I) iodide-argon low pressure plasma, *Journal of Physics 2014*