

# Lucas Rodés-Guirao

<https://lcsrg.me> | [hi@lcsrg.me](mailto:hi@lcsrg.me) | [he/him](https://he/him)

## EXPERIENCE

### OUR WORLD IN DATA

Senior Data Analyst

April 2021 - present

Working on COVID-19 data

### EDREAMS ODIGEO

Data Scientist

June 2018 - April 2021 | Barcelona, Spain

Applying Machine Learning in Product and Content areas.

### NATIONAL INSTITUTE OF INFORMATICS

Research Intern

November 2017 - May 2018 | Tokyo, Japan

Deep Learning for Digital Typhoon Project under supervision of Prof. Kitamoto (Master Thesis).

### TRACY

Software Developer

April 2017 - March 2018 | Stockholm, Sweden

Machine learning applied to a pet-health wearable.

### KTH ROYAL INSTITUTE OF TECHNOLOGY

Teaching Assistant

January 2017 - October 2017 | Stockholm, Sweden

Assisting Prof. Atsuto Maki in Machine Learning Course.

### KARLSRUHE INSTITUTE OF TECHNOLOGY

Research Assistant

March 2015 - July 2015 | Karlsruhe, Germany

Cognitive Radio under supervision of Univ.-Prof. Dr. rer.nat. Friedrich K. Jondral and Ankit Kaushik (Bachelor Thesis).

## EDUCATION

### KTH ROYAL INSTITUTE OF TECHNOLOGY

M.Sc in Electrical Engineering

Sept 2015 - June 2018 | Stockholm, Sweden

Cum GPA: 3.64/4

### POLYTECHNIC UNIVERSITY OF CATALONIA

M.Eng in Telecommunications

Sept 2015 - June 2018 | Barcelona, Spain

Cum GPA: 3.53/4

B.Eng in Telecommunications

Sept 2011 - Sept 2015 | Barcelona, Spain

Cum GPA: 3.3/4

### DEUTSCHE SCHULE BARCELONA

Sept 2003 - June 2011 | Barcelona, Spain

Abitur: 2.5 (High School)

## SOCIAL

GitHub @lucasrodes

LinkedIn @lucasrodes

Twitter @lucasrodesg

Medium @lucasrg

## COURSEWORK

### COMPUTER SCIENCE & ELECTRICAL ENGINEERING

Machine Learning, Deep Learning, Artificial Intelligence, Computer Vision, Information Retrieval, Unix Systems, Digital Signal Processing, Wireless Systems, Information Theory, Probability Theory.

### ONLINE COURSES

Digital Signal Processing (Coursera), Python for Everybody (Coursera), Django for Everybody (Coursera), Deep Learning Specialization by DeepLearning.AI (Coursera), Convolutional Neural Networks for Visual Recognition (Stanford).

## SKILLS

### NATURAL LANGUAGES

Native: Spanish, Catalan

Fluent: English, German

Elementary: Swedish

### PROGRAMMING LANGUAGES

Advanced: Python, SQL

Confident: Bash, SQL, JavaScript/TypeScript, Matlab

Familiar: CSS, HTML, R, Rust, Java, C

### TOOLS & UTILITIES

Git/Mercurial, ssh, docker, GitHub/Bitbucket, unit testing, A/B testing, GNU/Linux, CI/CD (Travis, Jenkins), Google Cloud Platform, numpy/scipy, pandas/dask, sklearn, tensorflow/keras, xgboost, plotly/bokeh, cookiecutter, GPU, React Native, Raspberry PI, JetBrains, VS Code, Jira/Confluence, Trello, Adobe Photoshop, Logic Pro, Blogging, DaVinci Resolve, Raspberry PI.

## EXTRA

Member	Telecos.cat Regional Society
Guide	Smart City Expo World Congress 2015
Organiser	Youth Association enkbronats (Cabrera de Mar, Sept 2013 - Sept 2019)
Volunteering	SJ Vietnam (Hanoi, August 2014)
DJ/Producer	Freelance, Al-Faru and Be Water
Teacher	Maths/Physics for high school students
Open Source	pandas (contributor), whatstk (author)

*In my freetime I enjoy baking bread and playing the ukulele. Dancing at 120 bpm is also a great distraction.*

# Lucas Rodés-Guirao

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## PUBLICATIONS

- [1] Edouard Mathieu, Hannah Ritchie, Esteban Ortiz-Ospina, Max Roser, Joe Hasell, Cameron Appel, Charlie Giattino, and Lucas Rodés-Guirao. A global database of COVID-19 vaccinations. *Nature Human Behaviour*, May 2021.
- [2] F. Baldassarre, D. González Morín, and L. Rodés-Guirao. Deep Koalarization: Image Colorization using CNNs and Inception-ResNet-v2. *ArXiv:1712.03400*, December 2017.
- [3] L. Rodés, A. Kaushik, Shree Krishna Sharma, Symeon Chatzinotas, and F. Jondral. Square-Law Selector and Square-Law Combiner for Cognitive Radio Systems: An Experimental Study. In *IEEE 84th Vehicular Technology Conference: VTC2016-Fall*, September 2016.

## PROJECTS

### COVID-19 VACCINATION DATASET Our World in Data

Jan 2021 - Present

[website](#) | [github](#)

Maintenance and data management of global COVID-19 vaccination dataset.

### ODISI LAEN Technologies

Jan 2020 - May 2020 | Barcelona, Spain

[website](#)

Development of mobile App using React Native and TypeScript for iOS and Android.

### WHATSTK Open Source

Dec 2016 - Present | Barcelona, Spain

[website](#) | [github](#) | [pypi](#)

Development, testing, versioning, maintenance of an open source python library to read and analyse WhatsApp chat. Distributed under the GPL-3.0 license.

### HOTEL BOOKING PREDICTIVE MODEL eDreams ODIGEO

Feb 2019 - Jan 2020 | Barcelona, Spain

Implementation of Machine Learning model to predict the user propensity to book a hotel.

### VIRTUAL INTERLINING eDreams ODIGEO

Sep 2018 - Jan 2019, Oct 2019 - March 2021 | Barcelona, Spain

[virtual interlining info](#)

Create new content combining flights/segments from different data sources (e.g. different carriers, providers etc.) using Machine Learning.

### DEEP LEARNING FOR DIGITAL TYPHOON

Academic (NII, KTH, UPC)

Nov 2017 - May 2018 | Tokyo, Japan

[report](#) | [github](#) | [documentation](#)

Deep Learning and Computer Vision applied to a typhoon satellite image dataset. Part of my Master Thesis.

### DEEP KOALARIZATION Academic (KTH Royal Institute of Technology)

Jun 2017 - Dec 2017 | Stockholm, Sweden

[website](#) | [github](#) | [paper](#)

Acknowledged by Keras creator François Chollet, we review recent approaches to colorize gray-scale images using deep learning methods and propose a novel colorization model.

### SENSOR MOTION DATA EXPLORATION Tracy Trackers

Apr 2017 - Mar 2018 | Stockholm, Sweden

[website](#)

Development and implementation of an AI/Machine learning based algorithm for pet-health IT device in an early-stage Start-up. Data collection, data cleaning, Cloud architecture discussions, Start-up roadmap etc.

### TRUMP TWITTER ANALYSIS/VISUALISATION

Academic (KTH Royal Institute of Technology)

Apr 2017 - Jun 2017 | Stockholm, Sweden

[github](#) | [report](#)

Visualization of President Trump Tweets using Kibana and Elasticsearch. This project was developed as part of the DD2476 Search Engines and Information Retrieval Systems course at KTH Royal Institute of Technology, spring 2017.

### BOOK AUTHOR CLASSIFICATION Academic (Polytechnic University of Catalonia)

May 2016 - Jun 2016 | Barcelona, Spain

[report](#) | [github](#)

Benchmarking of NLP classification models applied to spanish literature book fragments.

### DEPLOYMENT OF ENERGY DETECTOR FOR COGNITIVE RELAY WITH MULTIPLE ANTENNAS

Academic (Karlsruhe Institute of Technology)

Mar 2015 - Jul 2015 | Karlsruhe, Germany

[report](#)

Bachelor thesis in Telecommunications Engineering as an exchange student at KIT.