

European
Python
Programming
Conference



europython

July 23-26 2020

Online






europython

July 23-26 2020

Online

Welcome to EuroPython 2020!	06
Conference Setup	10
Schedule overview	15
Program	
Keynote Speakers	31
Thursday, 09:10 CEST, in Room Microsoft	31
Siddha Ganju	
Thursday, 18:00 CEST, in Room Microsoft	31
Naomi Ceder	
Thursday, 21:20 CEST, in Room Microsoft	32
Jessica McKellar	
Friday, 09:10 CEST, in Room Microsoft	33
Alejandro Saucedo	
Friday, 18:00 CEST, in Room Microsoft	34
Guido van Rossum	

Talks	34
Data Science Track	34
EuroPython meets Data Science	34
Poster sessions	36
EuroPython sessions	36
EPS General Assembly	36
EuroPython 2021: Help us build the next edition!	37
EuroPython Sprints	39
Social Event	40
Sponsors	43
Code of Conduct	44
Contacts	46
Imprint	47
PyNotes	48



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Welcome to europython 2020! online



We would like to welcome you to our 19th EuroPython conference, the highlight of the year for the European Python community. We hope you'll enjoy the keynotes, talks, sprints, and many other events we have planned for you!

EuroPython started in 2002 in Charleroi, Belgium, as the first completely community organized major Python conference, and has been touring Europe for 18 years now. We had stops in Gothenburg (Sweden), CERN (Switzerland), Vilnius (Lithuania), Birmingham (UK), Florence (Italy), Berlin (Germany), Bilbao (Basque Country, Spain) Rimini (Italy), Edinburgh (UK), Basel (Switzerland) and now online for 2020.

Over the years, the conference has grown from 240 attendees in 2002 to more than 1200 in the last few years. EuroPython has become a yearly fixture for many Python enthusiasts and professionals.

Like so many other organisations, we had to make the difficult decision of canceling this year's in-person conference in Dublin due to COVID-19. However, now more than ever, we want to provide a platform for the community to come together and this will be our very first **EuroPython 2020** Online conference. We hope to attract as many as 1,000 Python developers, students and enthusiasts from all over the world to celebrate our love for Python and the community.

As the conference grew both in size and importance, we needed to adapt the conference

organization as well. To address this challenge, we have implemented a workgroup based management structure for EuroPython over the last couple of years. It has been well established and is working effectively. The main advantage is to have these workgroups persist from year to year. At the same time, the organization has been more open to volunteers from all over the world:

Everyone who would like to participate is welcome to join the EuroPython organizers. We appreciate every bit of help.^[1]

You can find many of the organizers and volunteers, who worked on making EuroPython 2020 happen, on our Discord server. Their names are shown in yellow. If you meet them, please share a smile to show your support.

Enjoy,

The EuroPython Organizers
EuroPython Team -

<https://ep2020.europython.eu/europython/team/>

EuroPython Society -

<http://www.europython-society.org/>



EuroPython
Society

[1] Please see <http://www.europython-society.org/workgroups> for details on joining the EuroPython Workgroups and <https://www.europython-society.org/application> for how to join the EuroPython Society, the organization behind the EuroPython conference series.



Azure for Python Developers

Azure offers extensive services for Python developers including app hosting, storage, open-source databases like MySQL and PostgreSQL, and data science, machine learning, and AI. The Azure libraries (SDK) for Python helps developers be highly productive when using these services.

Get started at <https://aka.ms/EuroPython2020Online>





Python extension for Visual Studio Code

A Visual Studio Code extension with rich support for the Python language (for all actively supported versions of the language: 2.7, ≥ 3.5), including features such as IntelliSense, linting, debugging, code navigation, code formatting, Jupyter notebook support, refactoring, variable explorer, test explorer, snippets, and more!

Get started at <https://aka.ms/europython2020>



WE
NEED
YOUR
HELP!

Given that most of the work already put into EuroPython 2020 will have to be adapted or redone due to the nature of the new event, we are reaching out to our incredible community to make this happen.

We are seeking for people who are motivated to help and have experience using online conference tools. If that sounds like a task for you, please reach out to us at **board@europepython.eu**.

We genuinely appreciate your collaboration.



Online Conference

Attending conference days (23rd & 24th July) will require a ticket, but the sprints (25th & 26th July) will be held on open rooms, free of charge. Speakers will not be charged to attend the conference.

Tools

Please check out the separate pages under Setup on our website regarding the Chat and Conference Systems we're going to use for the online event.



- **Chat System** as central conference platform, with channels to enable interactivity and links to the conference system rooms. We will use Discord for this.



- **Conference System** for audio / video, Q&A, polls, etc. during talks. We will use Zoom and Jitsi for these.

zoom

Conference Setup



Hallway Track

To enable interaction between attendees, we will have a hallway chat channel, as well as attendee run chats on our Discord server.

Sponsor Exhibit

The sponsor exhibit will be available as a web page on our website. Sponsor "booths" are run by the sponsors using a Zoom room and one or more chat channels each, where they

can present themselves, make contact, show demos or even run additional talks, training sessions, etc.

The exhibit will be available to sponsors for all four days.

Presentations

Presentations will take place in the following formats on the conference days (Thursday, July 23, and Friday, July 24).

Talks

Talks will be held in Zoom webinar tracks, with either 30 or 45 minute duration each. Q&A sessions will take place at the final 5 minutes of each meeting. Additionally, we are planning to use separate breakout chat channel where attendees can ask additional questions, similar to what we have at the in-person conference.

Posters

Posters will be collected into a gallery page, together with PDF versions of the documents. Poster sessions will then be held in Zoom rooms, so that the speakers can answer questions and present more details of their work using screensharing.

Lightning Talks

Lightning talks will be held in the plenary Zoom webinar track. The proposals will be collected on a Google Form that will be made available in our chat system on the day of the Lightning Talk session, similar to how we run this at the in-person event.

Open Space

We will have one or two Open Space tracks at the conference, where attendees can schedule their own sessions and then run them in Zoom rooms. We will set up a scheduling sheet on Google Drive to register sessions, which we will make available via a link in our chat system.

Sprints

Sprints will take place on Saturday, July 25, and Sunday, July 26. They are free to attend, but do require registration.

Each team will receive a Jitsi virtual room and a chat channel for collaboration. To submit a proposal, please follow the instructions on the Sprints page.

We will set up a scheduling sheet on Google Drive to register sessions.

Please follow the instructions on the Sprints page:

<https://ep2020.europython.eu/events/sprints/>



I love Python!

I've been a Python developer for 20 years and I've learned so much throughout these years thanks to the support I've found in our worldwide community. I'm excited about joining you at EuroPython 2020 (my first EuroPython!) where I'll be speaking about using tech for good, specifically for Diabetes monitoring with Python!

I'd love to chat with you, I'll be at the Vonage booth, where you can come say hello and learn more.

To stay in touch you can also follow us on Twitter, we're @VonageDev and on Twitch at [twitch.tv/vonagedevs](https://www.twitch.tv/vonagedevs).

Diana Rodriguez
Python Developer Advocate







We look forward to meeting
you at our booth!

developer.nexmo.com | @vonagedev

Schedule overview



	Microsoft	Brian	Ni
08:00	Registration		
09:00	Opening Session		
09:10	Siddha Ganju (Nvidia) Keynote: 30 Golden Rules of Deep Learning Performance		
10:00	Elias Mistler (Previsio) How to write multi-paradigm code	Bhagvan Kommadi (Value Momentum) Telehealth Platform : Python & Django powered	JunWei Song , KunYu Chen So, You Want to Build an Anti-Virus Engine?
10:45	  Coffee break		
11:00	Neeraj Pandey (Ashoka University) The Joy of Creating Art with Code.	Bojan Miletic (Softerrific) Django Testing on Steroid: pytest + Hypothesis	Takuya Futatsugi Bringing your Python script to more users!
11:30	Martin Christen (FHNW) pyRT - Computer Graphics in Jupyter Notebooks for Fun and Teaching	Nisarg Shah Developing GraphQL API in Django using Graphene	Leonardo Giordani (We Got POP Ltd) Clean Architectures in Python
12:00	Bernat Gabor (Bloomberg LP) Lessons from the Trenches: rewriting and re-releasing virtualenv	Miloslav Pojman (Akamai Technologies) HTTP/3 – why should I care?	Nicholas Tollervey How to Run a Corridor Track in a Remote Conference with Python
12:45	Lunch 		

Parrot [Data Science]

Poster 1

Poster 2

10:00

Tania Allard (Microsoft)
Docker and Python: making them play nicely and securely for Data Science and ML

10:45



Coffee break

11:00

Alexander Hendorf (Königsweg GmbH)
15 Things You Should Know About Spacy

Mattia Ferrini
Decision Science with Probabilistic Programming

Brilian Putra Amiruddin (Institut Teknologi Sepuluh Nopember)
Design and Simulate your Control Systems with Python, Why Not?

11:30

Naoise Holohan (IBM Research Europe)
Diffprivlib: Privacy-preserving machine learning with Scikit-learn

12:00



Eyal Trabelsi (Salesforce)
Practical Optimisation for Pandas


12:45

Lunch





	Microsoft	Brian	Ni
13:15	Miroslav Šedivý (solute GmbH) Your Name Is Invalid!	Philip Jones (Moneyed) An ASGI Server from scratch	Roberto Polli (Italian Digital Transformation Department) Extending HTTP for fun and non-profit
13:45	Yenny Cheung (Yelp) Creating an inclusive team culture in times of change	Szymon Pyżalski (Egnyte) Full Stack Type Safety	Ruud van der Ham (Upward Systems) Attractive GUIs with PySimpleGUI
14:15	Ben Nuttall (BBC News Labs) Tools for maintaining an open source Python project	Alexys Jacob (Numberly) A deep dive and comparison of Python drivers for Cassandra and Scylla	Michał Wodyński (PGS Software) Difficulties of Python code development packages, virtualenvs and package managers
15:00	 Coffee break		
15:15	Radosław Ganczarek (PGS Software S.A.) The joy of deleting code	Alexander Hultnér (Hultnér Technologies AB) API-schema-based testing with schemathesis	James Ing Wei Tang Honey, There Is a Python in My Android Phone!
15:45	Vinayak Mehta The Hitchhiker's Guide to CLIs in Python	Vinicius Gubiani Ferreira (Azion Technologies) Effective Code Reviews	Eyal Trabelsi (Salesforce) Elegant Exception Handling
16:15	Mikhail Medvedev (Tenable) Extending Python with Rust	Itamar Turner-Trauring Best practices for production-ready Docker packaging	Olga Matoula (Bloomberg) Social distancing from your system's dependencies: An API's Story
16:55	Lightning Talks 1		
18:00	Naomi Ceder (Python Software Foundation) Staying for the Community: Building Community in the face of Covid-19		

	Parrot [Data Science]	Poster 1	Poster 2
13:15	Chin Hwee Ong (ST Engineering) Speed Up Your Data Processing	Lil Anonymous (Northbridge House) Taking Part in the Greatest Experiment in History	Priscila Gutierrez (University of São Paulo) Radio Astronomy with Python
13:45	William Arias (Gitlab) Deploy your Machine Learning Bots like a boss with CI/CD		
14:15	Laurent Picard (Google) Building smarter solutions with no expertise in machine learning		
15:00	 Coffee break		
15:15	Eran Friedman (Fabric (formerly CommonSense Robotics)) Boosting simulation performance with Python		Vinicius Cruvinel Rego (Zukk Software) Integration between ArcGIS Server (Rest API) and Django
15:45	Alejandro Saucedo (The Institute for Ethical AI & Machine Learning) Real Time Stream Processing with Python Asyncio at Scale		
16:15	Lais Carvalho (Python Ireland) A chatbot that takes care of people during a lockdown.		

Microsoft

Brian

Ni



18:45

Dinner



19:30

Jeffrey Mew (Microsoft)
Supercharge your Data Science workflow with Notebooks, VS Code, and Azure

kianianthra chandy (California Institute of Technology)
IoTpy: Python + Streams + Agents for Streaming Applications

Diana Rodriguez (Vonage)
Roadmap to an Open Source Artificial Pancreas & Diabetes monitoring with Flask

20:00

Dustin Ingram (Google)
Static Typing in Python

Lorenzo Peña
Yet another package for multi-tenancy in Django

Aly Sivji (Chicago Python)
Pluggable Architecture

20:30

Jason McDonald (MousePaw Media)
Writing Zenlike Python

Sean Walsh (Lightbend)
Serverless 2.0 with Cloudstate. io-stateful functions with Python

Abdur-Rahmaan Janhangeer (CompilerAlchemy)
Django Clone From Scratch With Flask

21:15

Jessica McKellar
Python in Prison: how open source can change a criminal justice system



22:05

Virtual Social Event



Parrot [Data Science]

Poster 1

Poster 2

Dinner



19:30

Adrian Meyer (FHNW)
Detecting and Analyzing Solar Panels in Switzerland using Aerial Imagery

20:00

Shreya Khurana (GoDaddy)
Train. Serve. Deploy! Story of a NLP Model ft. Fairseq, Docker, Uwsgi and Nginx

20:30

Chase Stevens (Teikametrics)
Painless Machine Learning in Production

Joseph Song (Microsoft)
Durable Functions: A More Durable Azure Function



	Microsoft	Brian	Ni
08:00	Ching Lam Choi Corona-Net	Takanori Suzuki (PyCon JP Association) Decade of PyCon JP: How we spread the Python community in Japan	Petertc Chu Speak Python with Devices
08:30	Sangarshanan Veeraraghavan (Grofers) Interactive Mapmaking with Python	Noah Chen (FOSSASIA) community-oriented conference status during COVID-19	Smit Thakkar (dubizzle) Writing Clean Abstractions
09:05	Morning Announcements		
09:10	Alejandro Saucedo (The Institute for Ethical AI & Machine Learning) Keynote: Meditations on First Deployment		
10:00	Gautam Prajapati (Grofers) Advanced Infrastructure Management in Kubernetes using Python	Chiin-Rui Tan (Rho Zeta AI) Accessible Python education for schoolgirls using Avocados, Zombies, and Korean!	Ram Rachum Live-coding a music synthesizer
10:45	 Coffee break		
11:00	Paolo Melchiorre (20tab) A pythonic full-text search	Anton Chernikov (Tinkoff Mobile) Automate your tasks with Python and publish with Chat Apps	Wei Lee Python Table Manners: Cut the Cookie Gracefully
11:30	Marc-Andre Lemburg (eGenix.com) Running EuroPython 2020 as an online conference	serge sans_paille Tooling for Static Analysis of Python Programs	Gajendra Deshpande (KLS Gogte Institute of Technology) Deceptive Security using Python Python
12:00	vincent warmerdam (Rasa) Why Transformers Work	Fabian Höring (Criteo) Building reproducible distributed applications at scale	Michael Howitz (gocept gmbh & co. kg) We have nearly one million lines of Python 2 code in production – and now?
12:45	Lunch 		

Parrot [Data Science]

Poster 1

Poster 2

08:00

Hongjoo Lee (SK Hynix)
Automating machine learning workflow with DVC

08:30

Hui Xiang Chua (Essence)
Top 15 Python Tips for Data Cleaning/ Understanding

10:00

Anmol Krishan Sachdeva (OLX Group, Naspers)
Painting with GANs: Challenges and Technicalities of Neural Style Transfer

10:45



Coffee break

11:00

Bence Arató (BI Consulting)
The Python Data Visualization Landscape in 2020

Gunjan Dewan (Go-Jek)
Developing a match-making algorithm between customers and Go-Jek products!

Vijay Sajjanar (BLDEACET)
Reduce hardware costs in Internet of Things using Python

11:30

Sarah Gibson (The Alan Turing Institute)
Sharing Reproducible Python Environments with Binder

Robson Junior (Microsoft)
Mastering a data pipeline with Python: 6 years of learned lessons from mistakes


12:45

Lunch





	Microsoft	Brian	Ni
13:15	Ivana Kellyerova (wegfinder) How to Avoid Becoming a 10x Engineer	Mridu Bhatnagar Object Internals	Cheuk Ho (TerminusDB) How to be Pythonic? Design a Query Language in Python
13:45	J.M. Ortega (Freelance) Python Memory Management 101	Prashant Chaubey Writing Good Python	Anastasiia Tymoshchuk (Scoutbee GmbH) Can we deploy yet?
14:15	Mark Smith (MongoDB) Everything You Know About MongoDB is Wrong!	Theofanis Petkos (Veturilo) , George Zisopoulos (Veturilo) Ensuring data integrity with asynchronous programming in a cloud IoT core	David Bordeynik (Zebra Medical Vision) Flasync Await
15:00	 Coffee break		
15:15	Reuven Lerner (Lerner Consulting) How to sort anything	Irene Iriarte (Gousto) Building The Perfect Personalised Menu Using Python	Elizaveta Shashkova (JetBrains) The Hidden Power of the Python Runtime
15:45	Lil Anonymous (Northbridge House) Creating the Next Generations of Billionaires - Part 2	Stefan Baerisch (Stefan Baerisch Software Consulting) Tests that (Almost) Write Themselves	Marc-Andre Lemburg (eGenix.com) Find a new job - Sponsor Presentations
16:15	Adam Hopkins (PacketFabric) Overcoming access control in web APIs	Francisco Passos (Google) Migrating codebases with millions of modules from Python 2 to Python 3	Marc-Andre Lemburg (eGenix.com) EuroPython 2021: Help us build the next edition!
16:55	Lightning Talks 2		
18:00	Guido van Rossum Guido van Rossum Q&A		

	Parrot [Data Science]	Poster 1	Poster 2
13:15	Nicolas Kuhaupt (Data Convolution) Probabilistic Forecasting with DeepAR and AWS SageMaker	Krishna Kanta Singh (Rakuten) Writing Extensions and Bindings for GPU made Easy	Ruud van der Ham (Upward Systems) Simulation of logistic systems in Python with salabim
13:45	Mario Corchero (Bloomberg LP), Marianna Polatoglou (Bloomberg LP) Growing a Python Community at an Enterprise Level Python		
	Victoriya Fedotova (Intel), Frank Schlimbach (Intel) The Painless Route in Python to Fast and Scalable Machine Learning		
15:00	 Coffee break		
15:15	Ian Ozsvald (Mor Consulting) Making Pandas Fly	Francesca Tedeschi (University of Padova) The Phantom of Radon	Griffith Rees (Sheffield Methods Institute, Sheffield University) Resurrecting a django project in python 2.7 for 3.8
15:45	Miki Tebeka (353solutions) IPython: The Productivity Booster		
16:15	Philipp Thomann (D ONE) NLPeasy - a Workflow to Analyse, Enrich, and Explore Textual Data		



Microsoft

Brian

Ni

18:45

Dinner



19:30

Camila Maia (Loadsmart)
ScanAPIAmber Vanderburg (Paradigm Shift)
Cultivating a Culture of Creativity, Collaboration, and CaptainshipFernando Masanori Ashikaga (FATEC São José dos Campos)
Python Emergency Remote Teaching

20:00

Lidi Zheng (Google) , Pau Freixes (Skyscanner)
gRPC Python, C Extensions, and AsyncIOMason Egger (DigitalOcean)
There's a Snake in the Birdhouse!Adinata Thayib (Pocket Gems)
Running Unit Test on Top of Serverless Service

20:30

Tam-Sanh Nguyen (McKinsey / Quantum Black)
Writing and Scaling Collaborative Data Pipelines with KedroBruno Ferreira
Digital Transformation in the fight against CoronavirusAlexander Condello
Building quantum applications with D-Wave's Leap

21:20

Closing Session

21:30

After Party

22:30

▶▶


Parrot [Data Science]

Poster 1

Poster 2

18:45

Dinner



19:30

Dean Wampler (Anyscale)

Ray: A System for High-performance, Distributed Python Applications

20:00

Brendan Tierney

SQL for Data Science: Using Analytical Function

20:30

Aaron Ma (Firebolt)

Machine Learning for Everyone

09:00

Sprint Opening Session

09:30

Sprint Morning Session 1

11:00



11:15

Sprint Morning Session 2

12:45



13:15

Sprint Afternoon Session 1

15:00



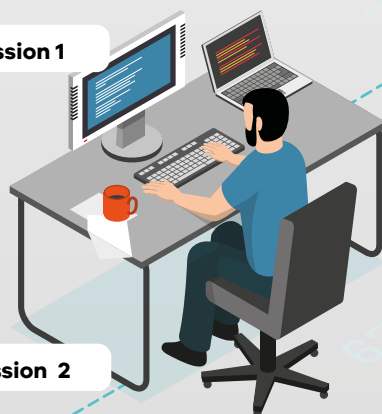
15:15

Sprint Afternoon Session 2

17:05

18:45

Sprint End of Day Presentations



July 26, 2020

EuroPython 2020 | European Python Programming Conference | Program Booklet



Sprint Morning Annoucements

09:00

Sprint Morning Session 3

09:05

11:00



Sprint Morning Session 4

11:15

12:45



Sprint Afternoon Session 3

13:15

15:00



Sprint Afternoon Session 4

15:15

Sprint End of Day Presentations

17:05

18:45



TRAYPORT
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Keynote Speakers

Siddha Ganju



30 Golden Rules of Deep Learning Performance



Thursday, 09:10 CEST, in Room Microsoft

"Watching paint dry is faster than training my deep learning model."

"If only I had ten more GPUs, I could train my model in time."

"I want to run my model on a cheap smartphone, but it's probably too heavy and slow."

If this sounds like you, then you might like this talk.

Exploring the landscape of training and inference, we cover a myriad of tricks that step-by-step improve the efficiency of most deep learning pipelines, reduce wasted hardware cycles, and make them cost-effective. We identify and fix inefficiencies across different parts of the pipeline, including data preparation, reading and augmentation, training, and inference.

With a data-driven approach and easy-to-replicate TensorFlow examples, finely tune the knobs of your deep learning pipeline to get the best out of your hardware. And with the money you save, demand a raise!

About Siddha Ganju

Siddha Ganju, an AI researcher who Forbes featured in their 30 under 30 list, is a Self-Driving Architect at Nvidia. As an AI Advisor to NASA FDL, she helped build an automated meteor detection pipeline for the CAMS project at NASA, which ended up discovering a comet. Previously at Deep Vision, she developed deep learning models for resource-constrained edge devices. Her work ranges from Visual Question Answering to Generative Adversarial Networks to gathering insights from CERN's petabyte-scale data and has been published at top-tier conferences including CVPR and NeurIPS. She has served as a featured jury member in several international tech competitions including CES. As an advocate for diversity and inclusion in technology, she speaks at schools and colleges to motivate and grow a new generation of technologies from all backgrounds.

LinkedIn: <https://www.linkedin.com/in/sidgan/>

Twitter: <https://twitter.com/SiddhaGanju>

Website: <http://sidgan.me/siddhaganju>

Naomi Ceder



Staying for the Community: Building Community in the face of Covid-19



Thursday, 18:00 CEST, in Room Microsoft

Python communities around the world, large and small are facing loss - from the loss of in person meetups and conferences to the loss of employment and even the potential loss of health and life. As communities we are all confronting uncertainty and unanswered questions. In this talk I would like to reflect on some of those questions. What are communities doing now to preserve a sense of community in the face of this crisis? What might we do and what options will we have for coming events? How can we build and foster community and still keep everyone safe? What challenges might we all face in the future? What sources of support can we find? What are our sources of optimism and hope?

About Naomi Ceder

Naomi Ceder earned a Ph.D in Classics several decades ago, but switched from ancient human languages to computer languages sometime in the last century. Since 2001, she has been learning, teaching, writing about, and using Python.

An elected fellow of the Python Software Foundation, Naomi currently serves as chair of its board of directors. She also speaks internationally about the Python community, and on inclusion and diversity in technology in general.

By day she leads a team of Python programmers for Dick Blick Art Materials, and in her spare time she enjoys sketching, knitting, and deep philosophical conversations with her dog.

Jessica McKellar



Python in
Prison: how
open source
can change
a criminal
justice
system



Thursday, 21:20 CEST, in Room Microsoft

The United States has the highest incarceration rate in the world, with over 2.2 million people behind bars in our prisons, jails, juvenile facilities, and detention centers.

The system is racist and ineffective, but how do we change something so big and so economically entrenched, especially as software engineers?

Let's look at how Python classes in US prisons are transforming rehabilitation and re-entry, and talk about what we can do as individuals and as an open source community to dismantle an unjust system.

About Jessica McKellar

Jessica McKellar is a founder and the CTO of Pilot, a bookkeeping firm powered by software. Previously, she was a founder and the VP of Engineering for a real-time collaboration startup acquired by Dropbox, where she then served as a Director of Engineering. Before that, she was a computer nerd at MIT who joined her friends at Ksplice, a company building a service for rebootless kernel updates on Linux that was acquired by Oracle.

Jessica is a former Director for the Python Software Foundation and PyCon North America's Diversity Outreach Chair. For her outreach efforts in the Python community, she was awarded the O'Reilly Open Source Award.

Open source meets criminal justice reform in Jessica's work with The Last Mile, a job training and re-entry program that has implemented the first computer programming curriculum inside US prisons. She teaches Python at San Quentin State Prison in California, hires formerly incarcerated software engineers, and uses that bridge between the tech industry and prisons to get people activated and acting for decarceration.

Alejandro Saucedo



Meditations on First Deployment: A Practical Guide to Responsible Development



Friday, 09:10 CEST, in Room Microsoft

As the impact of software increasingly reaches farther and wider, our professional responsibility as developers becomes more critical to society. The production systems we design, build and maintain often bring inherent adversities with complex technical, societal and even ethical challenges. The skillsets required to tackle these challenges require us to go beyond

the algorithms, and require cross-functional collaboration that often goes beyond a single developer. In this talk we introduce intuitive and practical insights from a few of the core ethics themes in software including Privacy, Equity, Trust and Transparency. We cover their importance, the growing societal challenges, and how organisations such as The Institute for Ethical AI, The Linux Foundation, the Association for Computer Machinery, NumFocus, the IEEE and the Python Software Foundation are contributing to these critical themes through standards, policy advice and open source software initiatives. We finally will wrap up the talk with practical steps that any individual can take to get involved and contribute to some of these great open initiatives, and contribute to these critical ongoing discussions.

About Alejandro Saucedo

Alejandro is the Chief Scientist at the Institute for Ethical AI & Machine Learning, where he leads the development of industry standards on machine learning bias, adversarial attacks and differential privacy. Alejandro is also the Director of Machine Learning Engineering at Seldon Technologies, where he leads large scale projects implementing open source and enterprise infrastructure for Machine Learning Orchestration and Explainability. With over 10 years of software development experience, Alejandro has held technical leadership positions across hyper-growth scale-ups and has delivered multi-national projects with top tier investment banks, magic circle law-firms and global insurance companies. He has a strong track record building cross-functional departments of software engineers from scratch, and leading the delivery of large-scale machine learning systems across the financial,

insurance, legal, transport, manufacturing and construction sectors (in Europe, US and Latin America).

Linkedin: <https://linkedin.com/in/axsaucedo>

Twitter: <https://twitter.com/axsaucedo>

Github: <https://github.com/axsaucedo>

Website: <https://ethical.institute/>

Guido van Rossum



Guido van Rossum Q&A



Friday, 18:00 CEST, in Room Microsoft

In this session, you'll get a chance to get your questions answered by Guido van Rossum, our retired BDFL.

In order to submit a question, please use the following Google form: Guido van Rossum Q&A: Question Submission.

About Guido van Rossum

Guido van Rossum is Python's creator. He is Dutch, but lives in the San Francisco Bay Area. Until July 2018 he was Python's BDFL (Benevolent Dictator For Life), and he is still deeply involved in the Python community (especially in the area of language design). Until October 2019 he was a Principal Engineer at Dropbox. He is now retired. He loves parentheses.

Talks

EuroPython 2020 gives you access to more than 110 sessions throughout the 2 days of the conference. We have included the schedule in this booklet, but changes after publication are still possible.

Please see our website or the conference app for the full up to date schedule, including session descriptions.

Data Science Track

In recent years, data science has become a very important part of the Python's eco system. EuroPython has been dedicated to showcasing Python's use in data science for many years. This year, we have reserved two all day tracks to this topic.

EuroPython meets Data Science

We are happy to announce a complete data science track as part of the main EuroPython conference this year.

Many of the talks rely on projects which are funded by NumFocus. Please find more information and the mission of **NumFocus** supporting Open Source Software below.





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MILLIONS OF TRADES PER DAY ON >50 EXCHANGES



600 DIFFERENT APPLICATIONS



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10.000 HIGHLY CUSTOMISED COMPONENTS



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We will have two full day tracks featuring more than 18 talks and a keynote:

- ▶ *Thursday and Friday in the Parrot room*
- ▶ *Keynote on Friday*

Poster sessions

Posters are a graphical way to describe a project or a technology, printed in large formats; posters are exhibited online at the conference, can be read at any time by participants, and can be discussed face to face with their authors during the poster sessions.

[Building a State-of-the-art Fraud Detection Framework](#) by Albert Calvo

[Decision Science with Probabilistic Programming](#) by Mattia Ferrini

[Design and Simulate your Control Systems with Python, Why Not?](#) by Brilian Putra Amiruddin

[Developing a match-making algorithm between customers and Go-Jek products!](#) by Gunjan Dewan

[Integration between ArcGIS Server \(Rest API\) and Django](#) by Vinicius Cruvinel Rego

[Radio Astronomy with Python](#) by Priscila Gutierrez

[Reduce hardware costs in Internet of Things using Python](#) by Vijay Sajjanar

[Resurrecting a django project in python 2.7 for 3.8](#) by Griffith Rees

[Simulation of logistic systems in Python with salabim](#) by Ruud van der Ham

[Taking Part in the Greatest Experiment in History](#) by lil anonymous

[The Phantom of Radon](#) by Francesca Tedeschi

[Writing Extensions and Bindings for GPU made Easy](#) by Krishna Kanta Singh

EuroPython sessions

The EuroPython sessions are intended for anyone interested in helping with the EuroPython organization in the coming years.



EPS General Assembly

This is where the EuroPython Society (EPS) board gives its reports, resolutions are passed and the EPS members can vote in a new EPS board.

Please note: The General Assembly will be scheduled a few weeks after EuroPython 2020 and also held online. We will announce the General Assembly on the EPS blog.



EuroPython 2021: Help us build the next edition!

  Friday, 16:15 CEST, Room Ni

We need help with organizing and running EuroPython 2021.

In this session, we will explain how the EuroPython workgroup model works and where you could help.

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Python Deep Learning JavaScript Hadoop Kubernetes Real Time
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EuroPython Sprints

Most open source software development happens on the web and developers commonly only communicate online when working on projects. This usually works out fine, but the lack of live meetings can sometimes be a limiting factor in making good progress.

For this reason, a form of impromptu coding meetups called “sprints” or “hackathons” (outside the Python community, the term “hackathon” is more common) were initiated, where developers interested in a project can get together in person for a short period of time to make quick progress. Since conferences provide the perfect place to meet, sprints are made into part of the conference program.

EuroPython has had sprints ever since it started in 2002. This year in the online version, we will again have a sprint weekend, where developers can join to work on interesting things. It is also possible for people interested in a project to join in for the first time at a sprint. The setup and management of the sprints are solely up to the teams running the sprints.

We will have a sprint introduction session on **Saturday morning at 09:00 CEST in Room Microsoft**. If you want to join a sprint team, attending this session is a good idea..





Social Events




On Thursday, July 23, we will have a virtual social event, starting at 21:20 CEST.

On Friday, July 24, we'll have an after party, starting at 21:30 CEST.

For both events, we are preparing a number of fun things to socialize virtually.

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Code of Conduct

EuroPython is a diverse community who maintains a reputation as a friendly, welcoming, inspiring and dynamic group. We'd like to keep it that way, which is why we ask all participants, speakers, organizers and sponsors (collectively: the attendees) to follow this code of conduct (CoC).

If you have questions regarding this CoC, please see our CoC FAQ below or contact the [EuroPython CoC WG](#). Your questions will only be seen by the [members of the CoC workgroup](#) and treated confidentially.

Be nice to each other

We trust that attendees will treat each other in a way that reflects the widely held view that diversity and friendliness are strengths of our community to be celebrated and fostered.

Furthermore, we believe attendees have a right to:

- be treated with courtesy, dignity and respect;
- be free from any form of discrimination, victimization, harassment or bullying;
- enjoy an environment free from unwelcome behavior, inappropriate language and unsuitable imagery.

Be professional and don't spam

We consider EuroPython a great setting to showcase the work of the community and would like to encourage networking and business related discussions, as well as keep

the conference presentations meaningful and interesting for everyone.

We therefore:

- only allow company marketing or recruiting related activities at the conference in accordance with our sponsor agreements;
- request presentations - outside the official recruiting sessions - to focus on Python related topics, not on recruitment.

The [EuroPython Sponsor WG](#) will be happy to answer any questions related to marketing or recruiting activities.

Solving problems

If problems covered by this code of conduct arise, please contact one of EuroPython CoC contacts listed below or any other EuroPython organizer directly and in private. Any complaint will remain confidential, be taken seriously, investigated, and dealt with appropriately.

The EuroPython organizers reserve the right to carry out any of the following actions relating to a complaint:

- The person concerned may be told to stop/ modify his/her behavior appropriately and a warning will be issued.
- The person concerned may be warned that enforcement action may be taken if the behavior continues.
- The person concerned may be asked to leave the venue immediately and/or may be prohibited from continuing to attend EuroPython (without refund).
- The incident may be reported to the local authorities.

Contacts:

 coc@europython.eu - Emails to this address will be received by the EuroPython CoC Workgroup, which is in charge of CoC conflict management.

You can also reach the following members via email, phone or contact them directly:

Valeria Pettorino

valeria.pettorino@cea.fr

Twitter: @vpettorino

Silvia Uberti

silviauberti@gmail.com

Twitter: @ladybiss, Telegram: @ladybiss

Anders Hammarquist

sm6xmm@gmail.com

Telegram: @SM6XMM

Marc-Andre Lemburg

mal@europython.eu

Telegram: @malemburg

This document is based on the [PyCon UK 2015 Code of Conduct](#) and released under a [creative commons license](#).

Code of Conduct FAQ

This FAQ is meant to clarify a few questions that may arise from reading our above Code of Conduct for the EuroPython conference.

Why did you add the “don’t spam” section to the CoC?

At previous EuroPython conferences we had a

few issues with non-sponsor companies trying to sidestep our sponsorship packages by e.g. massively distributing flyers on conference tables, directly approaching attendees with calls to attend company presentations, or using lightning talks as free recruiting session.

It should be understood by attending companies, that marketing and promotional activities are only permitted in the context of our paid sponsor packages. Not following these guidelines is disrespectful of our attendees and paying sponsors.

To make this clear to everyone, we decided to add a new section to the CoC, starting with EuroPython 2016.

May I distribute flyers/stickers/etc at the in-person conference?

We will have a special table/area designated for distribution of flyers, stickers and other informational material, which can be used by all attendees (including employees of companies sponsoring or not sponsoring EuroPython) to place marketing material.

Unsolicited distribution of marketing material in other areas, e.g. on conference tables, in conference rooms, etc. is not permitted, unless authorized by the EuroPython Sponsors WG.

May I send private messages to attendees on the Discord chat system?

If you have their permission, that's absolutely no problem.

We do not want sponsors to contact attendees in a cold-call style to get their attention. It is better to first get their attention on one of the

public channels and then follow up with them using PMs for more details conversations.

As an attendee you may contact other attendees via private messages, if they have turned on permissions to allow such messages. If you do, please be aware that such direct contact may not be welcome and also consider that our Code of Conduct applies to such communications as well.

Does the restriction of marketing/recruiting activities also apply to private discussions?

Absolutely not :-) Much to the contrary, we want to encourage such communication at the conference, including discussions related to business acquisition or recruiting offers.

The restriction does apply to unsolicited marketing or recruiting activities by non-sponsor companies, since this would sidestep our sponsoring activities and lower the value of our sponsoring packages. Without this restriction, we'd end up with fewer sponsors and a higher priced conference, which is not in our interest and also not in the interest of our many attendees.

I have a question which is not answered in this FAQ

Please contact the EuroPython CoC WG with any other questions you may have. Your questions will only be seen by the members of the CoC workgroup and treated confidentially.

Contacts

EuroPython Helpdesk

If you have questions regarding EuroPython, your talk submissions, your tickets, etc. please contact the EuroPython Helpdesk at:

@ helpdesk@europepython.eu

Please see the **code of conduct page** for CoC contact information.

For problems with the website we have an expert option available too: please report issues using the **github tracker for the site**.

EuroPython Sponsor Contact

If you are interested in **sponsoring EuroPython**, please contact:

@ sponsoring@europepython.eu

The sponsoring team will then get in touch with you to discuss the possibilities and details.

EuroPython Society

The EuroPython Society board can be reached via one of the following addresses:

@ board@europepython.eu
@ board@europepython-society.org
@ [@europepython](https://twitter.com/europepython)

Imprint

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@ board@europython-society.org

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<http://www.europython-society.org/>

Photo references can be found on this page:

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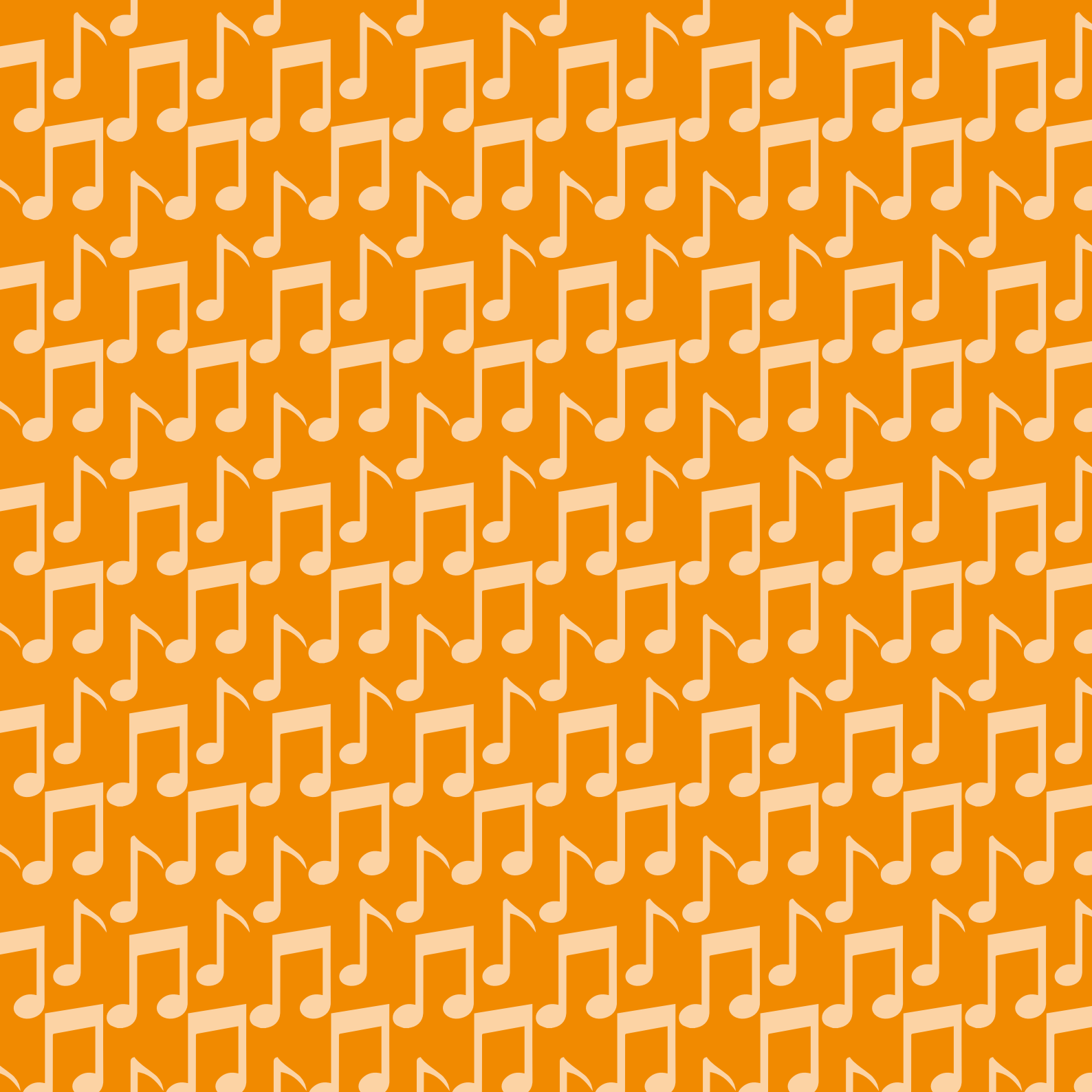
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