

ANDRÉ CASTRO

Python Developer / Media Designer / Tutor

Born in Lisbon, Portugal, 1983.
Based in Rotterdam.

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WORK POSITIONS

2019-2020 - Python Developer at **TVT Media/DMC**

- *Responsibilities:*
 - Improving and maintaining the set of (REST API and webui) microservices for schedule and media processing, tracking, validation and notification.
 - Resolution of operational issues
 - Code reviews and deployment
- *Technology stack:*
 - Python: Flask, SQLAlchemy, Jinja2, Celery, pytest, tox
 - RabbitMQ
 - MySQL
 - Gitlab
 - Kibana
 - RedHat servers
 - Jira

Since 2017 - Core Tutor at **Master of Experimental Publishing** - **Piet Zwart Institute**

Since 2014 - Tutor at Willem de Kooning Academy - **Publication Station**

2014-2017 - Technical Tutor at **Master Media Design and Communication** - **Piet Zwart Institute**.

2014-2015 - Software developer for hybrid-publishing workflows at **Institute of Network Cultures**.

- *Responsibilities:*
 - Software development: for single source publishing workflows to generate both PDF & Epub from one single document
 - Workshop leader
 - Documentation
- *Technology stack:*

- Python scripting
- Pandoc
- Make
- Git

CONSULTANCY & COLLABORATIONS

2019 - **Étude #1: On Recitation** by Rana Hamadeh. For **Sonic Acts 2019**.

- *Responsibilities:* Software development for:
 - encoding Arabic an organ-book's sequence of perforated holes
 - live decoding perforated holes back into text and musical notes, performed by a self-playing piano.
- *Technology stack:*
 - Python: Mido, bidi, arabic_reshaper
 - Jack2
 - timidity

2019 - **Post Opera exhibition** - Exhibition light & sound playback network implementation, **Tent Rotterdam**.

- *Responsibilities:* Software development for synchronizing sound playback and light cues
- *Technology stack:*
 - Python: Mido, csv
 - ecasound

2018 - **Renée Turner's Warp Weft Memory**

- *Responsibilities:* Mediawiki Infrastructure development & Server maintenance
- *Technology stack:*
 - Mediawiki + Semantic Mediawiki
 - Apache2
 - Debian server

2017 - **Rana Hamadeh's The Ten Murders of Josephine** - Network Design & consultancy, **Witte de With, Lafayette Anticipations**.

- *Responsibilities:*
 - Software development: for creating a MIDI-based network where each MIDI message coming from a audio timeline, would trigger an event in the exhibition space.
 - Setting up telephony system.
 - Programming LED panels
- *Technology stack:*
 - Python
 - SuperCollider
 - Asterisk

2017 - **Rana Hamadeh's The Ten Murders of Josephine - first iteration** - live sound processing system, **Countour Biennial**, Mechelen.

2016 - **Lawrence Abu Hamdan's Humming Bird Clock** - Back end programming, **Liverpool Biennial**.

- *Responsibilities:* Software development: for sound analysis, database storage and querying, REST API, Web-ui
- *Technology stack:*
 - Python: pymongo, bottle, numpy
 - MongoDB

- Debian

2014-2016 - Bibliotecha - Underground and local network for the distribution of digital books.

2014 - Rotterdam Fabric Map - for Rotterdam's Municipality, in collaboration with GROUP A - studio for architecture.

2013 - Winter Night's Copyright Fairytale - coordination and soundtrack composition for the extravagant conference on free culture, as a part of **FREE!?**. Het Nieuwe Instituut, Rotterdam.

PUBLISHING PROJECTS

2016-2018 - Warp Weft Memory System administrator (Medaiwiki interface). Author: **Renée Turner**.

2016 - A Radiated Book. Part of editorial team. Publisher: **Constant**.

2014-2016 - Beyond Social - Platform Investigating Social Art and Design. Development of publishing workflow. Publisher: Willem de Kooning Academy.

2014-2015 - Institute of Network Cultures Publications Development of hybrid publications and hybrid publishing workflows and tools for the publications: **From Print to Ebooks: a Hybrid Publishing Toolkit for the Arts**, **The Volkskrant Building**, Network Notebooks (**#7**, **#8**, **#9**, **#10**, **#11**.)

WORKSHOP LEADER

2014-2016 - Bibliotecha workshop - Utrecht, Rotterdam, NYC, Maastricht, Linz.

2014 - Guest tutor at the Piet Zwart Institute, Master Media Design & Communication, on the thematic project Sound & Narrative.

2014 - Circuit Bending the Voice workshop in the **Gerrit Rietveld Academie**.

2013 - Spam Publishing workshop, with **Silvio Lorusso**, **trasnmedial 2013**, Berlin.

2011 - Light Decomposition workshop, with Alice Neiva, **Culturgest**, Lisbon.

2011 - Tactile Noise workshop, **WORM**, Rotterdam. **LCD**, Guimarães. **ISEA 2011**, Istanbul. **Oficinas do Convento**, Montemor-o-Novo. **Performance space**, London. **xDA hacklab**, Coimbra.

EDUCATION

2011-2013 - MA Master Media Design & Communication, **Piet Zwart Institute**, Willem de Kooning Academie, Hogeschool Rotterdam.

2004-2007 - BA Sonic Arts, Middlesex University, London.

2009-2010 - Internship, **NK**, Berlin.

2003-2004 - Music technologies program, **Restart**, Lisbon.

TECHNOLOGICAL SUMMARY

- **Programming Languages:**
 - Python: Flask, SQLAlchemy, Jinja2, Celery, pytest, tox, Django, OpenCV, Mido, mwclient
 - HTML, CSS, JavaScript
- **Operating Systems:** Debian(Linux), RaspberryPi(Linux), OpenWrt(Linux), Mac.
- **Software:** Mediawiki (with Semantic Mediawiki and Cargo extensions), Git, Apache, tinc, ffmpeg, Asterisk, LaTeX, Pandoc, SuperCollider, Linux command-line tools.
- **Databases:** MySQL, MongoDB.
- **Areas of expertise:** digital archives, documentation systems, audio-visual systems, interactive systems, publishing workflows, electronic books, web-to-print, digital sound synthesis and processing, tutoring, project coordination.

LANGUAGE PROFICIENCY

- **English:** Fluent
- **Portuguese:** Native
- **Spanish:** Conversational
- **Dutch:** Basic
- **French:** Basic
- **German:** Basic