

# Léonard Roussel

Creative technologist, audio-visual consultant, sound designer

[leonardroussel.com](http://leonardroussel.com) / [leonardroussel@gmail.com](mailto:leonardroussel@gmail.com)

*Professional & academic experience (see [portfolio](#) for detailed project references)*

---

- > **Arup • Consultant, Acoustics + Audiovisual + Experience Design** ([selected projects](#))  
2016 - 2020, New York + 2015 - 2016, Amsterdam
  - > Architectural acoustic design • Sound field capture and simulation • Soundscape research
  - > Audiovisual systems design, documentation & specifications • On-site commissioning and testing
  - > Data-driven, generative, interactive, digital art installations • Immersive sound design
  - > Multidisciplinary collaborations with architects, designers, and artists
  - > Design expertise from concept to completion at various project scales • Project management
- > **New York University Integrated Digital Media • Thesis Advisor, MSc program**  
2019, New York
  - > Review, mentorship, and advice for a student's thesis researching novel applications for audio descriptors extracted from human voice content
  - > Experimental process and results analysis, documentation, critique, final jury & discussion
- > **Arup • Intern, Acoustics + Audiovisual**  
2014, New York + 2013, Amsterdam
  - > Acoustics & building physics • 3D modeling • Sound field capture and simulation • Sound design
  - > Parametric design • Software development • Automation
- > **Institut de Recherche & Coordination Acoustique-Musique (IRCAM) • Research intern**  
2012, Paris
  - > Development of 3D audio analysis and synthesis tools to inform the research and development of cutting-edge spatial audio design software (Spat~ package for Max/MSP)
  - > Spatial audio data manipulation, automated audio processing, software development
  - > Experimentation and systematic testing in the IRCAM anechoic studios and performance room

## *Education*

---

- > **Engineering degree** (equiv. MSc)  
Civil engineering + acoustics major  
2015, École Centrale de Lyon (FR)
- > **Master of Sciences**  
Acoustics + signal processing  
2015, Institut National des Sciences Appliquées de Lyon (FR)

## *Languages*

---

- > **English:** fluent
- > **French:** native
- > **Dutch, German, Spanish:** basic

## *Awards & Recognition*

---

- > **ACEC Engineering Excellence Gold Award**  
[Sounds Of the Future City](#) (New York, 2020)
- > **Hack The Planet NY: Best Documentation**  
[DIY DNA monitoring](#) (New York, 2016)
- > **Animamus Art Salon NY**  
[Kryptoflex](#) (New York, 2014)

## *Computational & C.A.D. skills*

---

- > **3D Modeling & rendering**  
Rhino + Grasshopper, SketchUp, AutoCAD, Revit, Dynamo, Twinmotion
- > **Creative coding frameworks**  
Processing, Cinder, Openframeworks, Arduino, Max/MSP/Jitter, TouchDesigner (beginner)
- > **Programming environments**  
Python, Java, C++, C#, GLSL, Javascript, HTML, CSS, Matlab
- > **Sound design**  
Ableton Live, Logic, Reaper, Spat Revolution, Spat~
- > **Adobe Creative Suite**
- > **Acoustic modeling**  
CATT Acoustic, Odeon, EASE

## *Other interests & ongoing learning*

---

- > **3D modeling, animation, rendering**  
Houdini, Cinema4D, Substance, Unity
- > **Theater production**  
2014 Winterreise Cie Théâtre • Assistant stage director  
2012 Organisation Spectacle Étudiant • Stage director
- > **Music & performing arts**  
Flute, choir, composition, DJing  
2016 Sonic Acts Festival (NL): Production assistant  
2012 Nuits Sonores Festival (FR): Production assistant