

# Christos Trompoukis

Computational Designer | Environmental Designer | Architect Engineer

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Computational Designer professional with enthusiasm for mastering innovative technologies. Dedicated to sustainability, energy analysis, computation, data-driven design, ai, and their application in architectural design and engineering. Expert in visual scripting, digital workflows, performance analytics, and digital fabrication.

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## core skills

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- Computational design
- Environmental analysis
- Python scripting
- Digital Fabrication
- Generative design
- Design for Disassembly
- VR
- Construction documents

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## work experience

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**Junior Architect** | KMK Architects | Athens, Greece Mar 2022 - Mar 2023

- Implemented digital workflow improvements that reduced project delivery times by 15%
- Developed design concepts
- Completed construction drawings for 10+ projects
- Architecture visualizations for 10+ projects
- Coordinated with multiple suppliers

**Computational Designer Intern** | GG-Loop | Amsterdam | Remotely Oct 2021 - Mar 2022

- Developed the concept for a flagship store design
- Organic modeling of interior modules
- Created a VR experience of the design for investors

**Graphic Designer** | Freelance Oct 2013 - Mar 2023

**Graphic & Motion Design** | “Se Karantina” web series Mar 2020 - Jun 2020

**Paralegal Assistant** | Bokos Demetrios Law | Arta, Greece Sep 2011 - Sep 2012

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## education

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**Master’s Degree** | Advanced Architecture | Grade: 8.30 Oct 2020 - Jun 2021  
Institute for Advanced Architecture of Catalonia | Barcelona, Spain

- Introduction to Digital Fabrication
- Introduction to Programming & Physical Computing
- Computational Design
- Advanced Algorithmic Design Strategies
- Data-Informed Structures
- XR Data-Driven Stories

Master project: "Infinite<sup>3</sup>" | Grade: 8.00

**BSc and integrated MSc** | Architectural Engineering | Grade: 8.24  
Democritus University of Thrace | Xanthi, Greece

Oct 2013 - Nov 2019

- Computer-Aided Design
- Structural Engineering
- Energy Efficient Design, Sustainable Design, and HVAC
- Building Construction and Materials
- Urban Planning

Master project: "Athens: A Vision of a Hyper-City" | Grade: 10.00

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## workshops

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**Beyond Static: Exploring Machine Learning for adaptive geometries in expandable structures** 2023  
DigitalFUTURES | Online

**Program in Data Analytics** 2023  
IBM SkillsBuild | Online

**Evolutionary Computational Design: For Structural Optimization** 2023  
Parametric Architecture | Online

**Neural Networks for Predicting Subjective Design Evaluation** 2022  
DigitalFUTURES | Online

**Evolving Permutations: Interacting in Genetic Algorithms** 2022  
U-NAT | Human-Algorithm Interaction in Design | Online

**Data Visualization and Information Design Create a Visual Model** 2021  
Domestika | Online

**Grasshopper and Rhino: C# Scripting** 2021  
Linkedin Learning | Online

**Strange Things: Game Design & Jam Session** 2018  
University of Ioannina | Democritus University of Thrace | Ioannina, Greece

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## conferences

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**Playing Models: Artificial Intelligence, Architecture, and Story Telling** 2022  
University of Florida | Online

**eso** 2020  
Architecture and Interior Design Conference | Athens, Greece

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## competitions

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**Toronto Affordable Housing Challenge** | Project: "Infinite<sup>3</sup>" | Shortlisted

Jul 2021

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## voluntary work

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<b>Wandering Film Panorama</b>   Organization manager   Co-founder	Nov 2018 - Nov 2020
<b>Brain Freeze Magazine</b>   Editor-in-Chief   Co-founder	Apr 2016 - Apr 2018
<b>Cultural Student Union “Gefyra”</b>   Board Member	Nov 2016 - Nov 2017

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## licenses

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<b>Registered Architect</b>   Technical Chamber of Greece	2021
<b>European Car Driving License</b>   Category B	2012

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## languages

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<b>Greek</b>   Native Speaker	
<b>English</b>   IELTS: 8 Michigan University (ECPE) CEFR C2	Dec 2019 2007
<b>French</b>   CEFR DELF B2	2006

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## digital skills

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### Design:

- AutoCAD
- Rhino

### BIM:

- Autodesk Revit
- Rhino.Inside.Revit
- IFC.js

### Visualization & Post-production:

- Adobe Photoshop
- Adobe Illustrator
- Adobe InDesign
- Adobe After Effects
- Lumion
- Twinmotion
- V-Ray

- Blender
- Midjourney
- Stable Diffusion

### Game Engines & Scripting Languages:

- Grasshopper
- Dynamo
- Python
- C#
- Unity 3D
- Unreal Engine

### Data analysis:

- PowerBi

### Collaboration & Coordination Tools:

- Speckle

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## fabrication

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**Digital** | CNC | 3D printing | Laser cutter

**Traditional** | Circular saws, drills, sanders, etc