Tristan Dot

Curriculum Vitae (last update: September 25, 2023)

Education

2022-2026 **University of Cambridge**, *PhD in Digital Art History (Faculty of English)*.
Supervisors: Leonardo Impett, Samuel Albanie
Research topic: 19th century textile patterns, Jacquard weaving, epistemology of digital art history.

2021-2022 **Pantheon-Sorbonne University**, *M.A. 1 in art history - Highest Honors: 16.0/20*.
Master's Thesis Supervisor: Sophie Cras
Research topic: digital images in the AI era - Trevor Paglen and Hito Steyerl.

2020–2021 **Pantheon-Sorbonne University**, *B.A. in art history and archeology - Highest Honors: 16.7/20*.
Relevant courses: Historiography of art history, Artistical institutions, Ancient Greek art, Gothic arts, The Renaissance in France and Italy, Artistic creation in the 18th century, 19th century, 20th century, History of Photography, Contemporary art.

2019–2020 **ENS Paris-Saclay**, *M.Sc. in applied mathematics, Math., Vision, Learning (MVA) - Highest Honors: 17.2/20*.
Relevant courses: Computer vision and object recognition, Convex optimization, Probabilistic Gaphical Models, Topological Data Analysis, Reinforcement learning, Computational statistics, Algorithms for speech and NLP, Bayesian machine learning.

2018–2019 **Mines ParisTech**, *M.Sc. in engineering & applied mathematics - Academic exchange, Highest Honors: 3.6/4*.
Minor in Geostatistics and Applied Probabilities.
Relevant courses: Statistical learning, Data analysis, Image analysis, Introduction to Law, Labor Law, Cost Accounting, Corporate Governance, Quantum Information.

2016–2018 **Mines Saint-Etienne**, *M.Sc. in engineering & applied mathematics - Highest Honors, Top 10%*.
Relevant courses: High Performance Computing, Network Architecture, Big Data, Signal Processing, Numerical Analysis, Statistics, Micro & Macro Economics, Quantum Physics, Fluid Mechanics.

2013–2016 **Lycée Henri IV**, *Classe préparatoire, PCSI & PC* - Paris, France*.

Work experiences

October 2020 – June 2022 **Research engineer**, *Observatoire de Paris, CNRS, SYRTE*.
Affiliation: ALFA Laboratory, DISHAS team - supervisor: Matthieu Husson
Projects: • Astronomical medieval tables structure recognition, and hand-written text recognition.
• Use of deep features to navigate in datasets of mathematical diagrams (image retrieval, clustering, dimensionality reduction).

April – August 2020 **Graduate research assistant**, *Observatoire de Paris & Ecole des Ponts ParisTech, SYRTE & Imagine*.
Supervisors: Matthieu Husson, Mathieu Aubry
Project: Segmentation of medieval manuscripts, table structure recognition - in collaboration with historians of science.

April – Augus 2019 **Graduate research assistant**, *ENS Paris-Saclay, Borelli Center*.
Supervisors: Laurent Oudre, Nicolas Vayatis
Project: Multimodal analysis of locomotion: detection, recognition and classification of patterns (time series).

June – August 2018 **Undergraduate research assistant**, *Pasteur Institute, Center of Bioinformatics & Biostatistics*.
Affiliation: Evolutionary Bioinformatics Laboratory
Supervisors: Olivier Gascuel, Mathieu Moslonka
Project: Prediction of epidemiological parameters from ARN viruses genetic trees, using deep neural networks.

Grants

May 2023 **Cambridge Digital Humanities Awards:** *Am I normal? Artistic installation*, £600.

Sept. 2022 **Gates Cambridge scholarship:** *PhD in digital art history*, ≈ £200,000.

Teaching

Nov. 2022 **Project teacher**, *Digital Humanities Meet Artificial Intelligence*, PSL & ENS Master Course, Intensive Week.

March 2022 **Project teacher**, *Digital Humanities Meet Artificial Intelligence*, PSL & ENS Master Course, Intensive Week.

March 2021 **Project teacher**, *Digital Humanities Meet Artificial Intelligence*, PSL & ENS Master Course, Intensive Week.

Academic presentations and invited lectures

May 2023 "Following the grid: on some prefigurations of digital art history", *Styles Revisited: From Iconology to Digital Image Studies*, University of Geneva, Seminar.

April 2023 "Discrete image, grid, matrix: possibilities of encoding/decoding (weaving/unweaving), *From Hype to Reality: Artificial Intelligence in the Study of Art and Culture*, University of Zurich, Symposium.

Dec. 2022 "Computer vision and artwork analysis", *Des chiffres et des arts*, ENS, Lecture.

Nov. 2021 "Automatic table transcription in manuscripts", *Digital Humanities Meet Artificial Intelligence*, ENS Seminar.

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Research publications

2020 **Non-Linear Template-Based Approach for the Study of Locomotion**, ***Tristan Dot***, *François Quijoux, Laurent Oudre, Aliénor Vienne-Jumeau, Albane Moreau, Pierre-Paul Vidal, David Ricard*, Sensors 2020, 20, 1939.

2019 **Deep learning from phylogenies to understand the dynamics of epidemics.**, *Jakub Voznica, Anna Zhukova,* ***Tristan Dot****, Kary Ocaña, Frédéric Lemoine, et al..*, Epidemics - 7th International Conference on Infectious Disease Dynamics, Dec 2019, Charleston, United States.

Artistic outputs and demos

2023 o *Am I Normal?*, interactive installation funded by a Cambridge Digital Humanities Award.

2021 o *Dreamy Cops* - video artwork selected at the 2021 **Computer Vision Art Gallery**.

2018 o *Welcome To My Website!*, a random journey in the (vanishing) world of personal webpages – created with Tristan Stérin. [demo link]

Academic events organisation

June 2023 o *Zurich Digital Visual Studies Workshop*, hosting of the Digital Visual Studies team (University of Zurich), at the University of Cambridge.

Public engagement

May 2023 o "On the new nature of surveillance images", brief article, *The Scholar*.

Software development

2022 o *Table Transcriber*, an automatic pipeline for astronomical tables transcription. [report link]

Programming Python (inc. PyTorch), C, R, Matlab.

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