

Curriculum Vitae (last update: October 2024)

Education

- 2022-2026 **University of Cambridge**, *PhD in English/Digital Art History (Faculty of English)*.
Gates Cambridge Scholar
Supervisor: Leonardo Impett
Research topic: Nineteenth-century textile patterns in Britain: circulation between places, periods and media.
- 2021-2022 **Pantheon-Sorbonne University**, *M.A. (1) in art history - Highest Honors: 17.0/20*.
Master's Thesis Supervisor: Sophie Cras
Research topic: digital images in the age of computer vision – 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 Graphical 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 in digital humanities**, *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 – August 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

- Sept. 2024 **Cambridge Digital Humanities Methods Fellowship**: "Re-Mediating Archival Photographs through Computer Vision: Methods for Exploring the Violence of Images", £1,200.
- August 2024 **University of Cambridge, Centre for Research in the Arts, Humanities and Social Sciences (CRASSH)**: Research Network Grant, "textile - digital: blurred boundaries between materiality and virtuality", £1,500.
- February 2024 **Paul Mellon Centre Research Grant**: "Weaving patterns in Victorian Britain (1840-1914) – circulation between periods, places and media", £700.
- January 2024 **CNRS**: International workshop organisation grant, "Moving patterns. The circulation of textile motifs, from the industrial age to computer vision", €5,000.
- 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

- 2024-25 **Undergraduate supervisor**, Approaches to the History of Art and Architecture (Historiography), University of Cambridge, Department of History of Art.

- 2024-25 **Cambridge Digital Humanities Methods Fellow**, "Re-Mediating Archival Photographs through Computer Vision: Methods for Exploring the Violence of Images", University of Cambridge. (10 hours of teaching, course designed by myself).
- Nov. 2022 **Project teacher**, Digital Humanities Meet Artificial Intelligence, PSL University & ENS Master Course, Intensive Week. (35 hours of teaching, course designed by myself).
- March 2022 **Project teacher**, Digital Humanities Meet Artificial Intelligence, PSL University & ENS Master Course, Intensive Week. (35 hours of teaching, course designed by myself)
- March 2021 **Project teacher**, Digital Humanities Meet Artificial Intelligence, PSL University & ENS Master Course, Intensive Week. (35 hours of teaching, course designed by myself)

Academic presentations and invited lectures

- June 2024 "Moving Motifs in 19th century Britain: On the Global Circulation of Textile Patterns in the Industrial Age", Image Deluge & Globalization, University of Geneva, Conference.
- June 2024 "Weaving patterns in Victorian Britain (c. 1840-1900) – circulation between places, periods and media", Computer Vision and Art History Today, The Pennsylvania State University, Conference.
- 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.

Book reviews

- 2024 "Evangelhia Stead, Goethe Faust 1 Outlined. Moritz Retzsch's Prints in Circulation", Tristan Dot, *Belpégor*, 22-2, 2024 (forthcoming).

Publications in Computer Science

- 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

- 2024 *Am I Normal?*, interactive installation funded by a Cambridge Digital Humanities Award.
- 2021 *Dreamy Cops* - video artwork selected at the 2021 **Computer Vision Art Gallery**.
- 2018 *Welcome To My Website!*, a random journey in the (vanishing) world of personal webpages – created with Tristan Stérin. [demo link]

Academic events organisation

- 2024-25 Research Seminar, "textile - digital: blurred boundaries between materiality and virtuality", Centre for Research in the Arts, Humanities and Social Sciences (CRASSH), University of Cambridge.
- Dec. 2024 International workshop, "Moving patterns. The circulation of textile patterns, from the industrial age to computer vision", CNRS, INHA, Laboratory InVisu.
- April 2024 Workshop, "textile – digital", Cambridge Digital Humanities, University of Cambridge.

Public engagement

- March 2024 "Seeing the world through AI", interview, University of Cambridge – Cambridge Festival (2024)..
- May 2023 "On the new nature of surveillance images", brief article, *The Scholar*.
- Sept. 2022 "The study of images in the computer age", interview, Gates Cambridge website.

Software development

- 2022 *Table Transcriber*, an automatic pipeline for astronomical tables transcription. [report link]
- Programming Python (inc. PyTorch), C, R, Matlab.