

Maria Dimou in the CERN Academic Training Committee (ATC)

The CERN Academic Training is a valuable tradition that lasts for over 50 years with about 10 lecture series each Academic Year.

Timeline of my presence in the ATC

1. 2010-2016 IT representative in the ATC.
2. 2013-2017 Applied Physics and Technology Working Group chairperson **and** IT representative in the ATC.
3. As of June 2016: ATC Chairperson.
4. As of September 2022: ATC Advisor.

Documentation & Projects I completed

- The CERN Academic Training website [↗](#)
- Extension of the Academic Training programme [↗](#)
- The complete Guide for Academic Training: Representatives, Sponsors, Administrator
- Project of Academic Training promotion via youtube. **Completed** See here the result [↗](#).
- ATC internal meetings [↗](#) - Contributions and material.
- An attractive Web site to promote the CERN Academic Training [↗](#).
- Documentation for Academic Training on Zoom [↗](#).

Lectures suggested, voted, organised &/or sponsored

Since I entered the committee, I sponsored many lecture series and assisted my colleagues with others. With my IT experience I contributed with work in planning (Indico [↗](#)) and recording (CDS [↗](#)). Thanks to good relationships with Seminars, Colloquia, Technical Training organisers, colleagues in various departments, the area universities and other institutes, good collaborations were born and famous lecturers agreed to come despite the modest ATC budget. See details in the appended list.

1. 2011 - 2 lectures on "Linux vs other Operating Systems & Afs vs other distributed filesystems" - entry point: <https://indico.cern.ch/event/126258/> [↗](#) (by the AFS elders J.Altmann & D. Brashear)
2. 2011 - 3 lectures on "Microprocessor programming" - entry point: <https://indico.cern.ch/event/154435/> [↗](#)
3. 2012 - 4 lectures on "Computer security" - entry point: <http://indico.cern.ch/e/178500> [↗](#)
4. 2012 - 2 lectures on "Cloud computing" - entry point: <https://indico.cern.ch/event/178466/> [↗](#)
5. 2012 - 3 lectures on "Very Large Scale Engineering Projects" - entry point: <https://indico.cern.ch/event/181312/> [↗](#) (I found the lecturers - sponsored by another ATC colleague)
6. 2013 - 3 lectures on "LHC operations" - entry point: <https://indico.cern.ch/event/266730/> [↗](#) (I suggested the topic - sponsored by another ATC colleague)
7. 2013 - 2 lectures on "LHC controls" - entry point: <https://indico.cern.ch/event/273998/> [↗](#) (I found the lecturer - sponsored by another ATC colleagues)
8. 2013 - 4 lectures on "The making of antimater" - (proposed a sequel of <https://indico.cern.ch/event/175270/> [↗](#) and negotiated with the lecturer)
9. 2014 - 2 lectures on "Game theory" - entry point: <https://indico.cern.ch/event/296743/> [↗](#)
10. 2014 - 2 lectures on "Cryptography & the bitcoin protocol" - entry point: <https://indico.cern.ch/event/342160/> [↗](#)
11. 2015 - 2 lectures on "Big Data challenges in the era of Data Deluge" - entry point: <https://indico.cern.ch/event/331836/> [↗](#) (this technical solution was purchased by IBM shortly after this series)
12. 2015 - 3 lectures on "Future Computing Technology" - entry point: <https://indico.cern.ch/event/404677/> [↗](#)

13. 2015 - 2 lectures on "The Art of Way Finding" - entry point: <https://indico.cern.ch/event/436443/> (ancestral navigation techniques in the Marshall islands, studied by an ATLAS member from Harvard. The topic became a NYTimes article).
14. 2015 - Lecture on a 7000-languages' dictionary - entry point <https://indico.cern.ch/event/444488/> (suggested to and hosted by *Computing Seminars*)
15. 2015 - Lecture on "Salient objects in images" - <https://indico.cern.ch/event/407855/> (sponsored as a *White Area* lecture)
16. 2016 - Lecture on "Stuxnet & the Cyber-warfare" - <https://indico.cern.ch/event/438525/>
17. 2016 - 2 lectures on "Parallelism, Concurrency & Acceleration" - entry point <https://indico.cern.ch/event/404682/>
18. 2016 - Lecture on "Data visualisation" - <https://indico.cern.ch/event/465533/> (subsequent collaboration with the ATLAS outreach dev. team)
19. 2016 - 2 lectures on "Energy Efficiency in Computing" - entry point <https://indico.cern.ch/event/404687/>
20. 2016 - Lecture on "The History of the Night" - <https://indico.cern.ch/event/558023/> (Lecture repeated at The Geneva Hardt Foundation).
21. 2016 - 2 lectures on "Complex Dynamical Systems with Neural Networks" - entry point <https://indico.cern.ch/event/561247/>
22. 2017 - 2 lectures on "Supercomputing" - entry point <https://indico.cern.ch/event/559120/>
23. 2017 - Lecture on "Sonification as a Data Analysis tool" - <https://indico.cern.ch/event/605965/> (suggested to and hosted by the CERN Colloquia)
24. 2017 - Lecture on "Video as a Medium for Learning & Teaching" - <https://indico.cern.ch/event/595795/> (on research work done at CERN and Geneva University under my supervision)
25. 2017 - Lecture on "Data driven Education Technologies and Methods" - <https://indico.cern.ch/event/657834/> (sponsored by my ATC colleagues on an abstract sent to me from EPFL)
26. 2017 - Lecture on "Fast queries on heterogeneous data" - <https://indico.cern.ch/event/658958/> (sponsored by my ATC colleagues on an abstract sent to me from EPFL)
27. 2017 - Lecture on "Data privacy" by field expert Bruce Schneier (lecture **not** organised due to thin ATC budget)
28. 2018 - 2 lectures on "How source code becomes a controlled electron flow" - entry point <https://indico.cern.ch/event/668207/> (sponsored by my ATC colleagues)
29. 2018 - Lecture on "The Antikythera Mechanism" - <https://indico.cern.ch/event/673053/>
30. 2018 - Lecture on "Big Data & Social Media" - <https://indico.cern.ch/event/702278/> (by Internet father Vint Cerf)
31. 2018 - 2 lectures on "Teaching in Africa" - entry point <https://indico.cern.ch/event/745947/> (suggested to and sponsored by my ATC colleagues)
32. 2019 - 2 lectures on "Evolutionary Psychology" - entry point <https://indico.cern.ch/event/752042/> (by Roy Baumeister - his book)
33. 2019 - 1 seminar on "MirageOS robust and secure services for the cloud" - details in <https://indico.cern.ch/event/800623/> (suggested to the IT ATC representative, who passed it to the Computing Seminars sponsor).
34. 2020 - Lecture on "Securing a World of Physically Capable Computers" - <https://indico.cern.ch/event/976330/> by world expert on Computer Security Bruce Schneier.
35. 2021 - 2 lectures on "Federated Identities" - <https://indico.cern.ch/event/1049663/> by Solid project expert Michiel de Jong.
36. 2021 - 2 lectures "What is Freedom? - A historical perspective" - <https://indico.cern.ch/event/1049157/> by Prof. Dr. Annelien de Dijn - Princeton and Utrecht university - Postponed due to COVID-19, Cancelled in 2022.
37. 2022 - 2 lectures on "Gender inequality in the labour market and the household" - <https://indico.cern.ch/event/1050132/> by Dr Natalia Soboleva - Senior Research Fellow & Lecturer at the University of Moscow.
38. 2022 - 2 lectures on "The science of self-awareness: Neural and computational models of

- metacognition and consciousness" - <https://indico.cern.ch/event/1049604/> by Prof. Dr Stephen Fleming. In spring.
39. 2022 - 3 lectures on "Distributed computing - A historical perspective" - <https://indico.cern.ch/event/1052073/> by B.Segal, M.Dimou, N.Borenstein, L.Robertson, F.Hemmer. In spring.
40. 2022 - 3 lectures on Nanotechnology - with special focus of the uses in CERN devices, agriculture and medicine. Cancelled.
41. 2022 - 4 lectures on Data Protection - "Technology is NOT Neutral" and "Battling robots for our data, privacy and humanity" - entry point <https://indico.cern.ch/event/1214023/> by Stephanie Hare and Andrzej Nowak in November and December.
42. 2023 - 2 lectures on Data Protection (2nd series) - "Solid" and "The Decentralised Web" - entry point <https://indico.cern.ch/event/1233322/> by Ruben Dedecker and Patrick Hochstenbach (Ghent University) in March.
43. 2023 - 4 lectures on Data Protection (3rd series) - on various aspects of "Tracking", also in Academia - entry point <https://indico.cern.ch/event/1233683/>

-- MariaDimou - 2018-10-15

This topic: Edutech > MariaDimouAcademicTraining

Topic revision: r17 - 2023-10-13 - MariaDimou



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