



ADVANCED
STUDIES

ACTIVITY REPORT

2020-2021
2021-2022
Academic Years

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Director's Report

After a period of remote work, during the 2020-2021 and 2021-2022 academic years, scholars and Staff returned to CYAS premises and all in-person activities resumed.

The Institute continues to play a key role in the university's ambitious strategy, with the aim to encourage interdisciplinarity as well as interactions between scientists from all around the world.

In addition to the fellows-in-residence programme started in 2019, since 2021 CY Advanced Studies welcomes young researchers within the EUTOPIA European University Alliance Science & Innovation postdoctoral Fellowship programme.

In 2022, the Governing and Scientific Boards of the Institute were appointed by the university.

For the 2023-2024 academic year, several new activities and events aimed at a wide audience (public lectures, CYAS Chair, research in groups, etc.) will be organised and sponsored by CYAS.

My predecessor Arnaud Lefranc remarkably navigated CYAS through many challenges. It is both my privilege and responsibility to continue his efforts and contribute to the Institute's development.

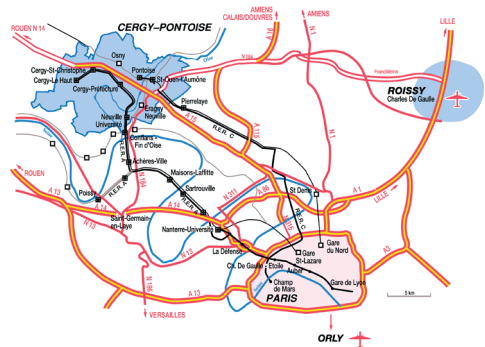
Flora Koukiou
Director of CY Advanced Studies

CY Cergy Paris Université

In January 2020, the University of Cergy-Pontoise and the EISTI engineering school merged into CY Cergy Paris Université¹, a French public university located in the greater Paris area. It is a young, multidisciplinary, medium-sized, university. It has around 26,000 full-time students and 1,200 academic and research staff. It offers training and research in most academic disciplines, with the exception of medicine.

CY Cergy Paris Université is primarily based on a campus nested within the city of Cergy-Pontoise, 30km in the North-West of Paris. The University is well-connected by public transportation with the Paris city-center and the Charles-de-Gaulle international airport, that can both be reached in about 40 minutes.

The University is organised into one undergraduate and five graduate schools (Sciences, Engineering, Economics and Management, Business, Arts and Humanities, Education, Law and Political Sciences). Research is conducted within our 28 research centres, 9 of which are associated with the French National Centre for Scientific Research (CNRS).



CY Cergy Paris Université is one of the founding members of the EUTOPIA European university selected by the EU and gathering 10 like-minded universities: Göteborg, Ljubljana, Pompeu Fabra, Warwick, Vrije Brussel, Babeş-Bolyai University, Ca'Foscari University of Venice, Nova University Lisbon, and Technische Universität Dresden.

The academic consortium made by the University of Cergy-Pontoise, the ESSEC business school and the EISTI, has been selected in 2017 by an international committee and recommended to the French government to be awarded the label of Initiative d'excellence. This award comes with increased financial support from the French programme Investissements d'avenir.

1. <https://www.cyu.fr>

CY Advanced Studies

MISSION

The main mission of CY Advanced Studies, within CY Cergy Paris Université, is to be a catalyst in the transformation of the research potential of the university by promoting excellence in research, enabling the emergence of innovative transdisciplinary research projects, and developing high-level international scientific exchanges.

The inspirational vision of Abraham Flexner, the founding director of the Princeton Institute for Advanced Study, act as the driving force of the CY Advanced Studies in its effort to offer an alternative to the increasing disciplinary segmentation prevailing within research centres of the university.

CY Advanced Studies was conceived as an international and transdisciplinary venue where research projects involving several domains could be developed and where all subjects could meet without any disciplinary restrictions, deepen research collaborations, expand international connections and increase the visibility, role and contribution of CY Cergy Paris Université to education, science and society.

CREATION AND EVOLUTION

The Institute for Advanced Studies has been created in 2007. At the time of its creation, the Institute had no dedicated facilities and its activities were supported by a limited staff. It mainly worked as a virtual research centre organizing thematic cycles, workshops and conferences in partnership with the researchers and laboratories of the University.

In January 2020, the Institute for Advanced Studies became CY Advanced Studies. Member of the UBIAS (University-Based Institutes for Advanced Studies) network, CY Advanced Studies has the status of an Institute of the University.

It is run by a Director appointed by the President of the university. The Director is assisted by a chief operating officer, an administrative officer for visiting professors, a financial and administrative officer, a programmes coordinator, the manager of the Residence, a logistics officer and the Welcome desk acc&ss Paris-Nord (<https://access.ciup.fr/access-paris-nord/>). Thanks to the Initiative d'Excellence the current budget allotted to invitations and organisation of scientific events amounts to about 1M€.

More details on the current structure, main activities and programmes can be found online at: <https://advancedstudies.cyu.fr/>

FACILITIES

Since the fall of 2016, CY Advanced Studies moved into a new building, La Maison Internationale de la Recherche.

This facility provides:

- office for visiting professors (capacity: 20 visitors) and Institute staff;
- an auditorium (150 seats);
- 5 seminar rooms.

The spring of 2019 saw the opening of a new residence dedicated to hosting visiting researchers collaborating with faculty members of CY Cergy Paris Université, including many of the visitors of CY Advanced Studies. The residence offers 18 apartments (10 studios or one-bedroom apartments, 5 two-bedroom apartments, 3 three-bedrooms apartments) located on our two main campuses of Neuville-sur-Oise and Cergy-Préfecture.

More information on this facility and access conditions can be found online: <https://advancedstudies.cyu.fr/english-version/browsing/institute/international-research-guesthouse>



Programmes



VISITORS PROGRAMME

CY Advanced Studies funds and coordinates a yearly visitors programme (of ca. 100 visitors per year), consisting in short stays (typically less than a month, with an average of 18 days) of international visitors from all disciplines.

Invitation proposals are submitted by researchers of CY Cergy Paris Université and appointed visitors are affiliated with a specific research centre of the University; they are not in residence at CY Advanced Studies.

FELLOWS-IN-RESIDENCE (FIR) PROGRAMME

The first call of applications of the yearly FIR programme has been launched in 2019. The programme aims at appointing junior and senior scientists as fellows-in-residence for the entire academic year although one-semester stays are also accepted.

Prospective fellows from all countries and all disciplinary backgrounds could apply directly to the programme and were encouraged, prior to the submission of their application, to establish contacts with the university research centres in line with their research proposal.

A new type of fellowship has been recently offered: national fellowship, at junior or senior level. This fellowship specifically targets researchers and professors holding a permanent position at French higher education or research institutions. For a period of 6 months, CY AS offers the possibility to host researchers during a CRCT or délégation period by reimbursing teaching costs to their home institution. This scheme is open also to researchers from partner universities outside France.

The evaluation and selection of the fellows is made by an international interdisciplinary selection committee who is seeking in maintaining gender, disciplinary, and level of expertise balance and aiming in recruiting leading international experts in all the fields of expertise represented at CY Cergy Paris Université.

Fellows-in-residence are affiliated with CY Advanced Studies and the department relevant to their research. They are offered attractive research and living conditions, office space at the Institute, funding to organise workshops, logistic support and have the possibility of being accommodated in the Residence.

Exchanges between fellows are promoted through regular seminars, guest lectures and other scientific or outreach activities.

US FULBRIGHT ACADEMIC EXCHANGE

The Fulbright-CY Initiative exchange programme co-funds the visit of up to two US researchers at CY Advanced Studies, in partnership between CY Cergy Paris Université and the US Fulbright Council for International Exchange of Scholars (CIES).

EUTOPIA SCIENCE & INNOVATION POSTDOCTORAL FELLOWSHIPS PROGRAMME (EUTOPIA SIF)

This 4-year programme is coordinated by CY Cergy Paris Université and it is jointly supported by the European Union and the partner institutions of EUTOPIA University Alliance (the Vrije Universiteit Brussel, the CY Cergy Paris Université, the University of Gotheburg, the University of Ljubljana, the University Pompeu Fabra and the University of Warwick). EUTOPIA-SIF co-finance a total of 76 post-doctoral fellowships (20 of them recruited by CYU).

A full description of the key research areas, the application procedure and the recruitment conditions are available on the EUTOPIA website: <https://eutopia-university.eu/english-version/research/sif-post-doctoral-fellowships>

Since 2021, during their two-year fellowship, in addition to their membership to CY Research Centres, the young researchers laureates of the EUTOPIA Science & Innovation Postdoctoral Fellowships Programme benefit from an additional affiliation with CYAS.

Scientific activities

THEMATIC CYCLES

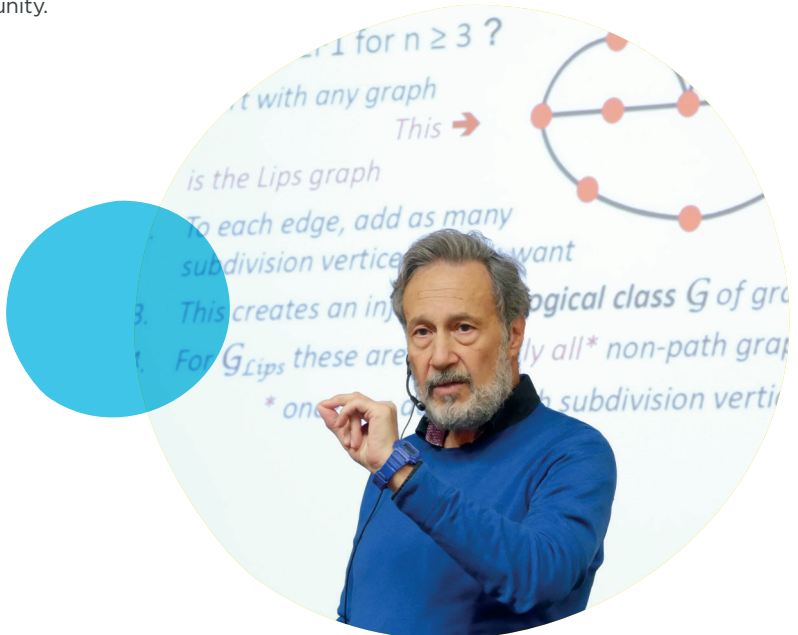
This programme consists in a series of scientific events on a specific topic that gather different disciplines. Their typical duration is 3-6 months. Thematic cycles can be coupled with visiting professorships.

GUEST LECTURES

Guest lectures are bi-monthly presentations given by CY Advanced Studies visitors and fellows. Less specialised than seminars they are focused on breaking through subjects and are addressed to all members of the academic community.

CONFERENCES AND WORKSHOPS

CY Advanced Studies hosts or sponsors about 60 specialised scientific events per year (in partnership with other research structures, e.g. university research centres, national or international institutions).



Fellows

IN 2020-2021



SALIM EL ROUAYHEB

(Fellow-in-residence 2020-2021)

Salim El Rouayheb is an associate professor in the Electrical and Computer Engineering (ECE) Department at Rutgers University. From 2013 to 2017, he was an assistant professor at the ECE Department at the Illinois Institute of Technology, Chicago. He was a research scholar at the Electrical Engineering Department at Princeton University (2012-2013) and a postdoc at the EECS department at the University of California, Berkeley (2010-2011). He received his Ph.D. degree in electrical engineering from Texas A&M University, College Station, in 2009. In 2019, he was the Rutgers University Walter Tyson Junior Faculty Chair. He received the Google Faculty Award in 2018 and the NSF CAREER award in 2016. His research interests lie in the area of information theoretic security and privacy of data in networks and distributed systems.



PHILIPPE LECORRE

(Fellow-in-residence 2020-2021)

Philippe Le Corre is a Research Associate at the Harvard Kennedy School, affiliated with both the Ash Center for Democratic Governance and Innovation and the Mossavar-Rahmani Center for Business and Government. In addition, he is an Associate in Research with the John K. Fairbank Center for Chinese Studies at Harvard University and a nonresident Senior Fellow at the Carnegie Endowment for International Peace in Washington, DC. He was previously a Visiting Fellow at the Brookings Institution and also served as an Adviser to the French Minister of Defense and as a Senior Policy Analyst on Northeast Asia in the French Ministry of Defense. He has taught at Sciences Po Paris, Inalco and Johns-Hopkins University. His research focuses on China's global rise with a special interest in Chinese investment and influence in Europe and Eurasia. His last book is *China's Offensive in Europe* (Brookings Institution Press, 2016). His work has also appeared in *Asia-Europe Journal*, *Carnegie Working Papers*' series, *China Economic Quarterly*, *Perspectives Chinoises*, *Etudes Revue de Relations Internationales et Stratégiques* and in a recent edited volume, *Rethinking the Silk Road* (Palgrave-MacMillan, 2018).



MASSIMO LEONE

(Fellow-in-residence 2020-2021)

Massimo Leone is Tenured Full Professor (“Professore Ordinario”) of Philosophy of Communication, Cultural Semiotics, and Visual Semiotics at the Department of Philosophy and Educational Sciences, University of Turin, Italy, Vice-Director for research at the same University, and part-time Professor of Semiotics in the Department of Chinese Language and Literature, University of Shanghai, China. He has been visiting professor at several universities in the five continents. He has single-authored twelve books, edited more than thirty collective volumes, and published more than five hundred articles in semiotics, religious studies, and visual studies. He is the chief editor of *Lexia*, the *Semiotic Journal* of the Centre for Interdisciplinary Research on Communication, University of Torino, Italy (SCOPUS). He is the winner of a 2018 ERC Consolidator Grant, the most prestigious research grant in Europe. He is the chief editor of *Lexia*, the *Semiotic Journal* of the Centre for Interdisciplinary Research on Communication, University of Turin, Italy, and editor of the book series “I Saggi di *Lexia*” (Rome: Aracne) and “Semiotics of Religion” (Berlin and Boston: Walter de Gruyter). He directed the MA Programme in Communication Studies at the University of Turin, Italy (2015-2018) and is currently vice-director for research at the Department of Philosophy and Educational Sciences, University of Turin, Italy.



EWA LUKASZYK

(Fellow-in-residence 2020-2021)

Ewa A. Łukaszuk was formerly professor of Mediterranean studies at the University of Warsaw and guest researcher at Leiden University. Member of the Neophilological Commission of the Polish Academy of Learning and Polish Oriental Society. She is specialised in comparative literature and history of ideas at the crossroad of Romance Europe and the Islamic world; she has also a considerable research experience in Lusophone studies. She is author of seven books and over 200 papers and chapters, editor of several collective volumes in comparative literature. She has recently published an extensive monograph on Portuguese literature, *Mglawica Pessoa* (The *Nebulosa Pessoa*, 2019), and a collection of essays *Humanistyka, która nadchodzi. W poszukiwaniu kondycji transkulturowej* (The *Coming Humanities: In Search of Transcultural Condition*, 2018). Her research focuses on mediaeval and early-modern heterodox religious ideas and utopias such as the search for the pre-lapsarian Adamic language. She also studies the presence of those legacies in the contemporary literature of Europe and the Mediterranean region.



BENOIT PAUSADER

(Fellow-in-residence 2020-2021)

Benoit Pausader is professor of mathematics at Brown University (RI, USA). After studying at the *Ecole Normale Supérieure de Lyon*, he graduated with a PhD from the University of Cergy-Pontoise in 2008 and after a postdoctoral period at Brown and Courant, he was chargé de recherche at CNRS and then Assistant Professor at Princeton University (NJ, USA). His research focuses on dispersive equations and their applications in physics. His main focus has shifted from fourth order equations (during his PhD), to the influence of geometry on the behaviour of solutions to problems from plasma physics and water waves, and he now concentrates on kinetic equations.



GUILHERME SAMPAIO

(Fellow-in-residence 2020-2021)

Guilherme Sampaio received his PhD in History from the European University Institute (2016). His thesis examined the translation, diffusion, and reception of the economist John Maynard Keynes's writings in France (1920s-50s). Working from an intellectual history standpoint, his research interests cover the societal impact of economic ideas in France, through their influence into policymaking and public debates. Previously he also worked on the political theory and praxis of nineteenth-century Portuguese Republicanism. He is currently transforming his thesis into a book manuscript under contract with Routledge while expanding his research focus towards the early ideational history of European integration.



ALFONSINA SCARINZI

(Fellow-in-residence 2020-2021)

Alfonsina Scarinzi is a lecturer of media, language, human cognition and technologically mediated interactions. She teaches courses at Georg-August-Universität Göttingen (Germany) and holds a PhD in Cognitive Studies with a focus on German language from the University of Göttingen. During her doctoral studies she was awarded both a DAAD STIBET and a DFG conference grant. She was a PostDoc fellow at UTC – Université de Technologie de Compiègne (France) and a visiting research fellow at the University of Exeter (UK), at UCLIC London (UK) and within the EU Consortium SIEMPRE at the University of Genova (Italy). She is the initiator and principal investigator of the multidisciplinary project “Aesthetics and the Embodied Mind”. In 2019, she started a series of workshops with the title “Meaningful Relations”. The topic of the first meeting was the iCub robot and the ERC Project “Whisper” by Alessandra Sciutti (iit – istituto italiano di tecnologia di Genova – Italy). Robot consciousness, human trust in robots, and the sensorimotor coupling between a human agent and a social robot in the constitution of an aesthetic experience is the topic of her main research and the topic of her next monograph.



LEANDRO SOTER

(Fellow-in-residence 2020-2021)

Dr. Leandro Soter de Mariz e Miranda graduated in Pharmaceutical Sciences at the Federal University of Rio de Janeiro (UFRJ). In 2007 he obtained his PhD at the same University working on the organic synthesis of natural products under the supervision of Dr. Mário Vasconcellos. After receiving his PhD Dr. de Mariz e Miranda worked at the Research and Development laboratories at a nucleoside specialised pharma-chemical industry in Brazil on the development and scaling up new synthetic routes for the synthesis of fluorinated nucleosides. By the year of 2011 he joined the chemistry institute at the Federal University of Rio de Janeiro as an associate professor of the Organic Chemistry Department. His research interest at the Biocatalysis and Organic Synthesis Laboratory at UFRJ includes the synthesis of new nucleosides scaffolds, continuous-flow chemistry and Biocatalysis. He is author of more than 80 papers and is scientific peer reviewer of high impact international journals. For his scientific work he is an affiliate member of the Brazilian Academy of Sciences.



DEMETRIO DA SILVA FILHO

(Fellow-in-residence 2021-2022)

Demétrio Filho is a professor of Physics at the University of Brasília and is the head of the department of Materials Structure, in the Institute of Physics. His research focus is in the transport properties of Organic Semiconductors. He has published more than 70 scientific papers that currently has been cited more than 11.000 times. He finished his PhD at the University of Campinas with a research stay at The University of Arizona (USA). After his post-doc at the Georgia Institute of Technology, he has been Senior Research Scientist at the same institution in the group of Prof. Jean-Luc Brédas. He is now full professor at the University of Brasília.



FRÉDÉRIC DUMUR

(National fellow 2021-2022)

Frédéric Dumur is associate professor since 2008 at the University of Aix Marseille (France). Formerly at the University of Angers, the University of Groningen (The Netherlands), the University of Reims Champagne-Ardenne and the University of Versailles Saint Quentin en Yvelines, he joined in 2008 the Institute of Radical Chemistry in Marseille. His research focuses on photochemistry and all the related applications including radical chemistry, photopolymerisation and water-waste treatments. His research interest also includes the polymerisation of organic monolayers on various metal substrates for optoelectronic applications. From 2013 to 2015, he was also associate researcher at the (Integration: from Material to Systems) IMS laboratory at the University of Bordeaux where he worked on the elaboration of organic light emitting diodes. He co-authored about 350 publications and 10 book chapters.



ANVAR FARKHUTDINOV

(Fellow-in-residence 2021-2022)

Anvar Farkhutdinov is assistant professor of the Department of Geology, hydrometeorology and geoecology at the Bashkir State University. In 2012 he was awarded scholarship of the French Embassy in Moscow for PhD thesis under joint Russian-French supervision. In 2016-2018 he has participated in organisation of the joint geological practice of the Bashkir State University students with the University of Cergy Paris students in the Southern Urals. In 2018 – winner of the Prize of the Russian Geological Society and the Federal Agency for Subsoil Use of the Ministry of Natural Resources and Ecology of Russia for the work: “Designing a geopark in Salavat and adjacent north-eastern districts of the Republic of Bashkortostan”. In 2020 he was awarded a scholarship of the French Embassy in Moscow for scientific project with the Geosciences and Environment Laboratory of the Cergy Paris University. Anvar Farkhutdinov is author of 60 articles in journals, including 12 indexed by Web of Science and Scopus. His recent research focuses on geology of the Southern Urals, in particular application of structural-tectonic modelling.



ADEL FRANCIS

(Fellow-in-residence 2021-2022)

Adel Francis is a Senior researcher or Professor of Ceramics at CMRDI with PhD, MSc and BSc chemistry degrees from university of Ain shams (Egypt), and Visiting Scientists at Imperial college London and Connecticut university, USA. In 2003, he was a visiting researcher at the Technical University of Darmstadt, Germany, and in 2011/2014 he conducted research at the Friedrich-Alexander-Universität Erlangen-Nürnberg (FAU, Germany). He is a member of numerous scientific bodies such as the Royal society of chemistry (UK), the Egyptian syndicate for Professional Scientists and the German Society of Humboldtians. From 2007 to 2009 he did research at Technical University of Darmstadt as a Humboldt research fellow. His research is broad and encompasses a number of the various areas that fall under the heading of Materials Science and engineering. His research interests are centered on the relationships between the processing, microstructure and functional properties of ceramic and composite materials. He investigates functionalization strategies to modify metallic biomaterial surfaces (e.g. magnesium-based alloys) for medical implants and bone regeneration. Another important research area is the biological and functional behavior of organosilicon polymer-derived silicon-based ceramic composites for biomedical and engineering applications. Francis is a Fellow of the Alexander von Humboldt foundation (AvH), and an alumnus of the FAU and DAAD.



CONOR HENDERSON

(Fellow-in-residence 2021-2022)

Conor Henderson is an associate professor in the Department of Marketing and Judy and Hugh Oliphant Research Scholar at the Lundquist College of Business. Professor Henderson teaches and researches marketing strategy with an emphasis on firms' strategies and tactics aimed at building enduring customer relationships. Through a multi-method approach, Henderson investigates the strategic trade-offs across customers and over time in service, sports, digital, and business-to-business marketing contexts. His research has been awarded the 2016 Robert D. Buzzell MSI Best Paper Award by the Marketing Science Institute and the 2019 and 2020 Paper of the Year in Sports Marketing by the American Marketing Association's Sports Marketing SIG. His research has published in leading marketing journals including the Journal of Marketing, Marketing Science, and Journal of the Academy of Marketing Science. Professor Henderson is an Editor Review Board member for the Journal of the Academy of Marketing Science and received the Best Reviewer Award in 2019.

Henderson received his PhD from the University of Washington in 2013. He has been a research fellow at the Sales and Marketing Strategy Institute since 2019.



VOJKAN JAKSIC

(Fellow-in-residence 2021-2022)

Vojkan Jaksic has received his PhD in 1991 at California Institute of Technology. Since 2001 he is Professor of Mathematics at the McGill University in Montreal, Canada. His research interests are in the field of mathematical physics. Vojkan Jaksic was the Convenor of the XIX International Congress on Mathematical Physics held in Montreal, July 23-28, 2018, he is serving as a member of the Executive Committee of the IAMP 2015-2020, and has served as a member of the ERC Consolidator Grant Panel in 2015 and 2017, Section Mathematics (PE1).



ELIZABETH KRYDER-REID

(Fellow-in-residence 2021-2022)

Dr. Elizabeth Kryder-Reid is Chancellor's Professor of Anthropology and Museum Studies at Indiana University, Indianapolis, where she is the Director of the Cultural Heritage Research Centre and former Director of the IUPUI Museum Studies Programme. With anthropology degrees from Harvard and Brown, and professional experience in archaeology, art museums, and historic sites, her transdisciplinary research investigates how the tangible and intangible remnants of the past figure in the contestation of social inequalities across gender, race, class, ethnicity, and religion. Her past research on the intersections of landscape and power, including Keywords in American Landscape and California Mission Landscapes: Race, Memory, and the Politics of Heritage. Her current research is on toxic heritage, investigating how places of environmental harm are treated as heritage and examining the ways heritage sites are addressing aspects of their environmental harm, particularly as it intersects with environmental justice issues. As a Fulbright Research Scholar (2022), Dr. Kryder-Reid's research in France explores the landscapes of ruination associated with military conflict, particularly the ecological and social consequences of munitions in the WWI battlefields in the areas designated as the "Zone Rouge."



SONJA LAKIĆ

(EUTOPIA-SIF 2021-2023)

Sonja Lakić is an internationally trained architect, urban designer and planner, and a researcher with a PhD in Urban Studies. Her work evolves around the everydayness of contemporary cities and architecture, with a particular interest in anthropological and sociological aspects of architectural design and built environment and, most of all, lived forms of buildings. Sonja operates across different disciplines and scales, works visually and collects oral histories, practicing unconventional ethnography and storytelling mainly through photography and filmmaking, curating architecture, exhibitions, and her own life. Sonja was appointed visiting researcher and a guest lecturer at ISCTE Lisbon and Universidad NOVA de Lisboa. She is a member of the international ETNO.URB network and has been collaborating with different institutions and organisations worldwide, such as Future Architecture Platform, Lisbon Architecture Triennale, MAXXI - Museo nazionale delle arti del XXI secolo, Copenhagen Architecture Festival, MAO – Museum of Architecture and Design in Ljubljana, Slovenia, Estonian Museum of Architecture etc.



ALBERTO SANTINI

(EUTOPIA-SIF 2021-2023)

Alberto Santini is Assistant Professor at Universitat Pompeu Fabra (UPF), in Barcelona, Spain. He is also affiliate professor at the Barcelona Graduate School of Mathematics, and the Barcelona Graduate School of Economics (BGSE). He is a lecturer at the Barcelona School of Management and at RWTH Business School in Aachen, Germany. Before joining UPF, he was a post-doctoral fellow at RWTH Aachen University, a Visiting Scientist at Amazon in Seattle, US. He received his PhD in Automation and Operational Research (OR) in 2017 from the University of Bologna, Italy. He has been awarded with a BGSE Seed Grant, a Planetary Wellbeing Research Grant, a Juan de la Cierva scholarship, among others. He is the founder of AIROyoung (the youth chapter of AIRO, the Italian OR society), and of EUROyoung (a forum within EURO, the European Association of OR societies). He sits in the board of directors of AIRO.



NATTHAWAT SEMAKUL

(Fellow-in-residence 2021-2022)

Natthawat Semakul was born in Thailand. He earned a B.S. (Hons) in Chemistry from Chiang Mai University in 2010, where he developed a mild synthesis of cobalt titanate and worked as an intern at Chulabhorn Research Institute on the synthesis of Lamellarins natural products. As the Royal Thai Government scholarship recipient, he began graduate study on rhodium catalysis, C-H functionalisation, and metalloenzyme with Professor Tomislav Rovis at Colorado State University, Fort Collins in 2011. In 2016, he moved with the group to Columbia University, New York where he completed his Ph.D. as a visiting researcher. In his graduate works, he developed cyclopentadienyl ligands on rhodium and efficient stereoselective reactions to synthesise various valuable nitrogen heterocycles. He began his independent career as a lecturer at Chiang Mai University in 2017, where his group interests encompass sustainable organic synthesis, ligand design for metal-organic frameworks, and porous organic polymers for adsorbents, Li-ion battery electrodes, and electrochemical sensors.



TEMENUGA TRIFONOVA

(Fellow-in-residence 2021-2022)

Temenuga Trifonova is Associate Professor of Cinema and Media Studies at York University. She is the author of *The Figure of the Migrant in Contemporary European Cinema* (2020), *Warped Minds: Cinema and Psychopathology* (2014) and *The Image in French Philosophy* (2007), and editor/contributor of *Screening the Art World* (forthcoming in 2021), *Contemporary Visual Culture and the Sublime* (2017) and *European Film Theory* (2008). Her articles have appeared in the *Routledge Encyclopaedia of Film Theory, Cinema & Cie*, *CTheory*, *SubStance*, *Space and Culture*, *Rivista di Estetica*, *Studies in Comics*, *The European Journal of American Culture*, *Studies in European Cinema*, *Cineaste*, *Film and Philosophy*, *CineAction*, *Scope*, etc. She is a member of the College of Expert Reviewers (European Science Foundation) and member of the Editorial Committee of the journal *EuropeNow*, published by the Council for European Studies at Columbia University.



DIMITRIOS ZORMPAS

(Fellow-in-residence 2021-2022)

Dimitrios Zormpas is a post-doc research fellow at the Department of Economics and Management of the University of Brescia since March 2020. He has been previously working at the Department of Mathematics of the University of Bologna (2019-2020) and at the Department of Mathematics of the University of Padova (2018-2019). He has been awarded with a PhD in Real Estate Appraisal and Land Economics from the University of Padova (2018) and holds a Master and a Bachelor in Economics from the University of Macedonia. His main research interests are in the fields of Investment Theory, Energy Economics and Industrial Organisation. He is currently working on the effect of vertical relationships and agency conflicts on the timing and efficiency of investment projects. He is also interested in the analysis of public-private partnerships, land allocation problems, investments in the energy sector and the analysis of overlapping ownership arrangements.



WILLIAM ZWICKER

(Fellow-in-residence 2021-2022)

William S. Zwicker is the William D. Williams Professor of Mathematics at Union College, and was trained at Harvard University (undergraduate) and MIT (Ph.D.). He has held visiting positions at York University (Toronto), the Autònoma University of Barcelona, Alicante University, the London School of Economics, Balliol College Oxford, Université de Caen, and Université Paris Dauphine. He received the 2009 Stillman Prize for teaching, and currently serves on the editorial boards of *Mathematical Social Sciences* and of *Studies in Economic Design*. His principal research areas include set theory and logic, cooperative game theory, social choice theory, and fair division. He authored the Voting chapter in the *Handbook of Computational Social Choice* (Cambridge, 2016) and is co-author, with Alan D. Taylor, of the research monograph *Simple Games* (Princeton, 1999). Bill is particularly enthusiastic about questions of a geometric or combinatorial nature that arise from the social sciences and are of independent mathematical interest.



Visiting professors

IN 2020-2021

Prof. Riadh AHMADI,
National School of Engineers, University of Sfax, (Tunisia),
Geosciences, GEC.

Prof. David ANGULO GARCIA,
University of Cartagena, (Colombia),
Computational Neurosciences, LPTM.

Prof. Mariano BEIRO VILLANI,
University of Buenos Aires, (Argentina),
Computer Science, LPTM.

Prof. Cinira Magali FORTUNA,
University of Sao Paulo, (Brazil),
Nursing, EMA.

Prof. Sveva CORRADO,
University of Rome Tre, (Italy),
Geosciences, GEC.

Prof. Aurica FARCAS,
Petru Poni Institute of Macromolecular Chemistry, (Romania),
Supramolecular chemistry, LPPI.

Prof. Pablo GOMES,
Birkbeck University of London, (UK),
Economics, THEMA.

Prof. Olivier SCAILLET,
University of Geneva, (Switzerland),
Economics, THEMA.

IN 2021-2022

Prof. Samuel ABRAMS,
Columbia University, New-York, (USA),
Political Science, EMA.

Prof. Edmond ADJOVI,
University of Sciences of Abomey, (Benin),
Engineering and Mathematics, LZMGC.

Prof. Fakher ASSAAD,
University of Würzburg, (Germany),
Theoretical Physics and Astrophysics, LPTM

Prof. Mariano BEIRO VILLANI,
University of Buenos Aires, (Argentina),
Informatics Engineering, LPTM.

Prof. Isabella BIRINDELLI,
«La Sapienza» University Rome 1, (Italy),
Mathematical Sciences, AGM.

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Prof. Alexander WIETEK,

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Record of events

THEMATIC CYCLE

CY Cognition (2019-2023)

Scientific animation program and support for emerging research in cognitive sciences

This working group started its activities in spring 2019. The meetings allow exchanges between members of CY, schools on the site (ILEPS, EISTI, ENSEA, ESSEC) and hospital practitioners from GHT-NOVO. Our common areas of interest concern the understanding of cognitive mechanisms, their development and the treatment of associated pathologies. More specifically, our discussions focus on mental pathologies (diagnosis, modeling, treatment), education and school learning (cognitive development, educational methods, impact of new technologies, etc.) and rehabilitation.

GUEST LECTURES

In 2020-2021

Salvatore Monteleone: « *Design and Application of Energy Efficient Emerging NoC Architectures (E3NoC)* », 15 October 2020.

Alfonsina Scarinzi: « *Enacting the Pleasurable Feeling of Experience: Skillful Sensemaking in Human-Robot-Interaction (HRI)* », 5 November 2020.

Nena Mocnik: « *History Teaching and Trauma Transmission in Higher Education: Challenges, Needs and Guidelines* », 19 November 2020.

Fernando Peruani: « *Towards a unified, quantitative understanding of self-organisation in biology: From bacterial systems to decision-making and collective intelligence in animal groups* », 3 December 2020.

André de Palma: « *Economic theory as an "agent"* », 17 December 2020.

Ewa Lukaszzyk: « *Islamic legacies in the contemporary Euro-Mediterranean literature* », 7 January 2021.

Salim El Rouayheb: « *ON/OFF Privacy and Genomic Data* », 21 January 2021.

Anne Lehoërf: « *Archaeology: a field at the crossroads of social and laboratory sciences* », 4 February 2021.

Lola Cañamero: « *Affective Autonomous Robots and Interdisciplinary Research on Emotion* », 18 February 2021.

Benoit Pausader (professor of mathematics at Brown University, USA, fellow-in-residence): « *Dispersive equations in nature* », 1 March 2021.

Massimo Leone (Professor of Communication Philosophy, Cultural Semiotics and Visual Semiotics at the University of Turin, Italy, fellow-in-residence): « *Semioethics of the Visual Fake* », 25 March 2021.

Benoit Pausader: « *Dispersive equations in nature* », 1 April 2021.

Guilherme Sampaio: « *Finding new audiences: John Maynard Keynes and the French reception of his ideas from The Treatise on Money to The General Theory (1930-1945)* », 15 April 2021.

Leandro Soter: « *Nucleos(t)ides: Privileged Structures in the Search for Anticancer and Antiviral Compounds* », 6 May 2021.

Andras Fulop: « *Likelihood under Control and Estimating Dynamic Structural Macro-Finance Models (Joint with Jeremy Heng at ESSEC Singapore and Junye Li at Fudan)* », 20 May 2021.

Raphael Krikorian (Professor of mathematics at CY Cergy-Paris university, France, fellow-in-residence): « *How harmony and chaos live together?* », 3 June 2021.

In 2021-2022

Marcus Pivato: « *What is normative economics?* », 12 October 2021.

William Zwicker: « *Three Topics in the Mathematical Social Sciences* », 26 October 2021.

Conor Henderson: « *Emerging Research on Socio-Political Challenges for Brand Management* », 16 November 2021.

Thierry Brigaud: « *Fluorine in life sciences: the surprise guest* », 30 November 2021.

Temenuga Trifonova: « *The New European Cinema of Precarity* », 18 January 2022.

Vojkani Jakšić: « *Shannon's entropy, universality, and beyond* », 25 January 2022.

Elizabeth Kryder-Reid: « *“La guerre qui ronge le manteau vert des prairies”: the environmental harm of war and the changing shape of memory in La Zone Rouge* », 13 December 2022.

Klaas De Rycke: « *R&D in Architectural practice* », 8 February 2022.

Dimitrios Zormpas: « *Investment timing and capacity with overlapping ownership* », 22 February 2022.

Alberto Santini: « *Delivering packages, growing lettuce on Mars and transporting time bombs with a single tool* », 15 March 2022.

Hippolyte Gros: « *Mathematical thinking in context: when knowledge from everyday life interferes with problem solving* », 29 March 2022.

Matthawatt Semakul: « *New tools for the synthesis of N-heterocycles and molecular engineering of materials for energy storage* », 5 April 2022.

Anvar Farkhutdinov: « *How are mountains formed? and ongoing project on the formation of the Karatau complex (Russia, Southern Urals)* », 10 May 2022.

Ananyo Maitra: « *Time Liquid Crystals* », 24 May 2022.

CONFERENCES AND WORKSHOPS

In 2020-2021

International conference

“*Inhomogenous Random Systems 2020*”

coordinated by François Dunlop (LPTM) – January, 28th & 29th, 2020.

Workshop

“*AFLA Annual Symposium*”

coordinated by Julien Longhi (AGORA) – February, 6th, 2020.

Workshop

“*Second spring school of Digital Humanities*”

coordinated by Julien Longhi (IDHN) – March, 3rd to 5th, 2020.

International conference

“*Theoretical and Mathematical Physics in Cergy Paris, Singapore, and Warwick*”

coordinated by Rudolf A. Römer (University of Warwick) and Joachim Andreas Honecker (LPTM) – July, 9th & 10th, 2020.

International conference

“*New Results on Time Series and their Statistical Applications*”

coordinated by Paul Doukhan (AGM) – September, 14th to 18th, 2020.

International conference

“*CY-McGill Mathematical Physics Weekly Digital Seminar on Quantum Control*”

coordinated by Dr. Weichao Liang (AGM) – October, 8th to 10th, 2020.

Conference

“*Pratique inclusives, pratiques artistiques? Art Handicap Altérités*”

coordinated by Claire de Saint Martin (EMA) – October, 14th & 15th, 2020.

European conference

“*European Conference on biodeterioration of Stone Monuments ECBSM2020*”

coordinated by Patrick Di Martino (ERRMECe) – November, 5th & 6th, 2020.

Workshop

“*Le Traître en Politique: profils, parcours et représentations*”

coordinated by Wendy Devilliers and Alexandre Ruelle (AGORA) – November 26th & 27th 2020.

Conference

“*AstroEdu-FR*”

coordinated by Emmanuel Rollinde (LDAR) – January, 7th to 9th, 2021.

International conference

“*Inhomogenous Random Systems 2021*”

coordinated by François Dunlop (LPTM) – January, 26th & 27th, 2021.

International conference

“*Geothermal Winter School 2021*”

coordinated by Béatrice Ledéseret and Xavier Sengelen (GEC) – February, 17th, 2021.

Workshop

“*Enacting Meaningful Worlds: Perspectives and Methods*”

coordinated by Dr. Alfonsina Scarinzi (BONHEURS) – March, 9th, 2021.

Workshop

"National Histories and Minority Narratives at School"

coordinated by Bénédicte Girault and Patrick Garcia (AGORA) – March, 15th, 2021.

Conference

"Music(s) in the literary and artistic creation of the French-speaking Black Atlantic"

coordinated by Sylvie Brodziaik and (HERITAGES) – April, 8th & 9th, 2021.

International conference

"L'auteur en question"

coordinated by Joanna Nowicki (LT2D) – June, 3rd, 2021.

Conference

"3^{ème} Biennale de littérature de jeunesse. La médiation autour du livre de jeunesse en Europe au XXI^{ème}"

coordinated by Laroque Lydie and Virginie Tellier (EMA) – June, 16th & 17th, 2021.

International conference

"ICT-2020 International Conference of Thinking"

coordinated by Franck Jamet (CHArt) – June, 21st to 25th, 2021.

Workshop

"Digital Pinocchio – Face and Fake in Contemporary E-Technological Societies"

coordinated by Massimo Leone (AGORA) June, 23rd & 24th, 2021.

Conference

"Bâtiments et ouvrages en BETON, Monuments historiques en PIERRE, comportement du matériau en situation d'incendie"

coordinated by Albert Noumowe (LZMGC) – June, 24th, 2021.

Workshop

"Circulation of Economic Knowledge in the 20th century: A Transdisciplinary Outlook"

coordinated by Guilherme Sampaio (AGORA) – July, 5th, 2021.

International conference

"2nd French-Chinese forum on Materials and Structures of Civil Engineering"

coordinated by Jean Louis Gallias and Bruno Fiorio (LZMGC) – July, 7th, 2021.

International conference

"Short-circuits and Fused Visions: The Works and Networks of Claude Pélieu"

coordinated by Pacini (AGORA) – July, 8th & 9th, 2021.

In 2021-2022

International conference

"Valorisation and Reuse of Wastes and Circular Economy"

coordinated by Elhem Ghorbel (LZMGC) – September, 2nd, 2021.

Workshop

"Artificial intelligence, mathematics and physics"

coordinated by Rudolf Römer (University of Warwick) and Andrea Honecker (LPTM) – September, 27th & 28th, 2021.

Workshop

"Ecole d'automne de l'IDHN"

coordinated by Julien Longhi (IDHN) – September, 28th to 30th, 2021.

International conference

"Primary school in the 21st century"

coordinated by Gilles Monceau (EMA) – October, 12th to 14th, 2021.

Study session

"2nd Pop culture objects festival"

coordinated by Line Numa-Bocage (BONHEURS) – October, 26th, 2021.

International conference

"Making history during dictatorships"

coordinated by Christophe Araújo (AGORA) – November 25th & 26th, 2021.

International conference

"Economic Decisions and Social Preferences – in honour of Philippe Mongin"

coordinated by Marcus Pivato (THEMA) – November, 26th to 28th, 2021.

Workshop

"Ecole d'hiver de l'IDHN"

coordinated by Julien Longhi (IDHN) – December, 16th & 17th, 2021.

Workshop

"Aggregation across disciplines: connections and frameworks"

coordinated by William Zwicker, (William College New York, USA) and Marcus Pivato (THEMA) – December, 16th & 17th, 2021.

Workshop

"ANR Nonstops meeting"

coordinated by Laurent Bruneau, Vojkan Jaksic and Armen Shirikyan (AGM) – January, 26th to 28th, 2022.

Workshop

"Feminine research in the field of Civil Engineering: Valorisation and Reuse of Materials, Life Cycle Analysis, Bio Sourced Materials"

coordinated by Elhem Ghorbel (LZMGC) – March, 8th, 2022.

Workshop

"Electron and spin dynamics in 2D materials"

coordinated by Christine Richter and Karol Hricovini (LPMS) – March, 25th, 2022.

Workshop

"The making of professionals in the socio-educational, social, and mediasocial sectors"

coordinated by Ruggero Iori (EMA) – April, 12th & 13th, 2022.

International conference

"France-Latin America: Literature and Humanities (1945-2020)"

coordinated by Claude Coste (HERITAGES) – May, 9th to 11th, 2022.

International conference

"Literature-writing-Care, Health carers/Patients: what sort of narrative practices"

coordinated by Sylvie Brodziaik and Anne-Marie Petitjean (HERITAGES) – May, 11th to 13th, 2022.

Workshop

"Understanding Sophia? On human interaction with AI systems and robots"

coordinated by Alfonsina Scarzini (CY AS) and Thomas Fuchs (Heidelberg University, Germany) – May, 17th, 2022.

International conference

"The interplay of complex and coherent dynamics in brain function"

coordinated by Alessandro Torcini (LPTM) – May, 18th to 20th, 2022.

International conference

"Diverse Approaches to Hate Speech: Debates, Challenges and controversies"

coordinated by Julien Longhi (AGORA) – May, 18th to 20th, 2022.

International conference

“Rendez-vous en didactique: Mathématiques, Sciences”

coordinated by Maha Abboud (LDAR) – May, 30th to June, 3rd, 2022.

International conference

“War and its environmental legacies in museums and heritage sites: from invisibility to opportunities for engaging public audiences”

coordinated by Elizabeth Kryder-Reid (CY AS) – May, 30th, 2022.

International conference

“A. V. Dicey (1835-1922): Celebrating the centenary of the death of a British jurist, constitutionalist and political thinker”

coordinated by Catherine Marshall (AGORA) – June, 2nd & 3rd, 2022.

International conference

“The New European Cinema of Precarity”

coordinated by Temenuga Trifonova (CY AS and HERITAGES)– June, 3rd, 2022.

International conference

“Quantum Many-Body Physics in the presence of an environment”

coordinated by Andréa De Luca (LPTM) – June, 7th to 9th, 2022.

International conference

“New directions in disordered systems. A conference in honor of Abel Klein”

coordinated by Constanza Rojas-Molina (AGM) – June, 27th, to July, 1st, 2022.

International conference

“Queer People under the Franco’s Dictatorship”

coordinated by Geoffroy Huard (HERITAGES) – June, 13th & 14th, 2022.

International conference

“Telling Science, Drawing Science – TSDS #3”

coordinated by Cécile de Hosson (LDAR) – June, 15th to 17th, 2022.

Workshop

“Workshop in Gender and Family Economics”

coordinated by Stefania Marcassa and Lisa Collin (THEMA)

– June, 23rd & 24th, 2022.

International conference

“Seventh Symposium of Study on Mathematical Work”

coordinated by Assia Nechache (LDAR) – June, 27th, to July, 2nd, 2022.

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