

CURRICULUM VITAE | Ariane König



Nationality: German & Luxembourgish
Position: Research Scientist
Organisation, Department: University of Luxembourg, Department of Social Sciences
Languages: German, English, French, Luxembourgish, Italian, Spanish

CAREER OVERVIEW

1 January 2016 to date	University of Luxembourg , Research Scientist, Institute of Education and Society, Faculty of Humanities, Education and Social Sciences
1 June 2009 – 31 December 2015	University of Luxembourg , Head of Sustainable Development, reporting into the Rector (50% FTE)
1 August 2012 – 31 December 2015	University of Luxembourg (UL), Senior Researcher, Institute for Geography and Spatial Planning, , Faculty of Language and Literature, Humanities, Arts and Education (50% FTE)
1 October 2007 – 31 July 2012	University of Luxembourg , Advisor to the Rector (Conseillère auprès du recteur). (As of 1 June 2009 with 50% FTE)
1 November 2004 – 1 August 2009	Associate Fellow at the University of Oxford with a consulting contract to conduct research from 1 April 2006 – 31 March 2007.
15 November 2005 – 30 September 2007	Independent consultant (registered in Luxembourg) providing intellectual services to the Universities of Wageningen and Oxford.
24 May 2004 – 15 November 2005	University of Oxford , Research Fellow employed at the James Martin Institute for Science and Civilization at the Saïd Business School (start of maternity leave on 1 November 2004).
1 May 2002 – 30 December 2003	Harvard University , employed as Senior Research Associate at the Harvard Center for Risk Analysis, Harvard School for Public Health. Left voluntarily to relocate to Europe.
1 September 2000 – 30 June 2004	Harvard University , Fellow at the Science, Technology and Public Policy Program, Belfer Center for Science and International Affairs, Kennedy School of Government.
4 January 1997 – 31 August 2000	Monsanto International Services S.A. , Regulatory Affairs Manager and Scientific Affairs Coordinator, Agricultural Sector.
1 April 1996 – 30 September 1996	European Commission , Stagiaire in DG 3. Enterprise. Unit on Biotechnology. Head of Unit: Mr G. Cozigou. I quit this internship position to start a Masters of Science in EU: Law, Government and Policy at the London School of Economics on 1.10.1996-31.12.1996. Completed the section on Law, including an advanced course on competition law, before I received a job offer by Monsanto (see above).

EDUCATION

Date of award	Institution and certification
20 July 1996	University of Cambridge , Department of Biochemistry and Emmanuel College, Ph.D. in Biochemistry 'The biosynthesis of the macrolide polyketide immunosuppressant rapamycin'
23 March 1996	University of Cambridge , Master of Arts
27 June 1992	University of Cambridge , Emmanuel College, B.A. Honours Degree in Natural Sciences : Chemistry, Molecular biology, Biochemistry. 2(i).
6 July 1989	European School Luxembourg (1982-1989), European School Varese, Italy (1975-1981) European Baccalaureate 1.0

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MAIN CAREER ACHIEVEMENTS

<p>Aug. 2012 – to date</p>	<p>University of Luxembourg, Research Scientist</p> <p>Research: Since 2016 I raised over 1,5 Million Euro and built a team of five people to establish the first projects of 'transformative sustainability science' in Luxembourg. As part of those projects I:</p> <ul style="list-style-type: none"> • Led the co-design and implementation of the national collaboration platform Aktioun Nohaltegkeet mentioned as central coordination platform in the Luxembourg 2020 Plan National pour un Développement Durable. • Led a participatory a 3-year process to co-create a set of national scenarios on engagement with water and land in 2045, drawing on over 6 workshops and 60 interviews. • Led a 3-year participatory process to co-create a set of national scenarios for education in 2030, drawing on five workshops and over 50 interviews, which are now used for reframing in policy-making and practice. • Edited a first advanced text book on '<i>Sustainability science: Key Issues</i>' (Routledge, 2018), and published one of the first books on living laboratories '<i>Regenerative Sustainability in universities and cities: The role of living laboratories</i>' (Edward Elgar, 2013). Co-edited one special issue on environmental and sustainability education in the BeNeLux in 2018, and one on the integration of learning, scientific inquiry and practice in the high impact Journal '<i>Current Opinion in Environmental Sustainability</i>' in 2015, in addition to co-authoring several papers. <p>Teaching:</p> <ul style="list-style-type: none"> • Developed the Certificate in 'Sustainability and Social Innovation', the university's first study programme open to students and professionals with two core courses and two auxiliary/optional courses and peer group work for action-based experiential learning. • Created an interdisciplinary strand sustainability in the IPSE doctoral school, with a seminar on 'The practice of critical interdisciplinarity', which ran for three years of the doctoral school, and is offered as a University-level transferable skills course entitled 'Science in Society' since 2020. • Was invited to develop and teach a course on future – oriented systems thinking at the United Nations Sophia University, Tokyo, Japan. <p>Main advisory functions include appointment to the national Conseil Supérieur pour un Développement Durable (2013-2020), and the EUROSTAT-run European Statistical Advisory Committee (2016-to date), the National Observatory on Climate Politics (2021-todate), and to two boards of social enterprises.</p>
<p>June 2009 – Dec. 2015</p>	<p>University of Luxembourg, Head of Sustainable Development.</p> <ul style="list-style-type: none"> • Worked on integration of education and research with the practice of campus operations, planning and civic engagement projects for sustainability. • In 2008 I led the preparation of a 'Position Statement on' Energy-efficiency in campus buildings in Belval' with an expert group, which was used in practice in architectural competitions for buildings on the campus Belval and as guidance for architects and engineers. • In 2009 created <i>the UL Cell for Sustainable Development</i>, and the position 'Head of Sustainable Development and developed and implemented the UL's first 4 year action plan on sustainable development in a participatory process. Implementation activities include student award programmes on improved recycling and green student residences. Highlights of this work are summarized in three biennial report of the University on Sustainability that can be downloaded from the following website: https://www.en.uni.lu/sustainability (see links under 'A brief history of sustainability at the university'). • Developed a mobility strategy with a participatory approach in collaboration with Ass. Prof. Francesco Viti and operations that was implemented in 2014 and 2015.

	<ul style="list-style-type: none"> • <i>Lead author of the Charter of the International Sustainable Campus Network (ISCN)</i>, which was signed by 38 University presidents, including Harvard, ETH Zürich, and Hong Kong University. The UL signed in July 2010, and published a first annual report in 2011. For the ISCN, I organized an international symposium in the Luxembourg Pavillion at the Shanghai World Expo in 2010, and chaired for seven years one of three Working Groups. • The position of Head of Sustainable Development was abolished after a new rector, Rainer Klump took office in 2015, I was moved as a full-time researcher into the FLSHASE taking effect in January 2016.
Oct. 2007 – Dec. 2012	<p>University of Luxembourg, Advisor to the President.</p> <ul style="list-style-type: none"> • To foster <i>multi- and inter-disciplinarity in education</i> for UL students I have developed the Open Course Programme, with over 60 diverse courses open to all students from all faculties. • In 2010, I organized a workshop with the European Research Council on the evaluation of interdisciplinary research. • <i>Establishment of the UL Interdisciplinary Group on Social Enterprise:</i> In 2011 a workshop on Social Business, introduced by Grande-Duchesse Maria-Theresa was the starting point for two study trips with high-level politicians and the Crown Prince Guillaume, leading to a UL Interdisciplinary group, I facilitated the creation of a Chair on Social Business with the City of Esch, and developed an interdisciplinary course on ‘Social Enterprise and Social Innovation’ which is now part of the University Certificate. • Established two student exchange agreements with US Universities and a child care facility for the University. (I remained Associate Fellow at Oxford until 2009.)
Nov. 2004 – Aug. 2009	<p>Associate Fellow at the University of Oxford.</p> <ul style="list-style-type: none"> • With a consulting contract to conduct research from 1 April 2006 – 31 March 2007.
Sept. 2005 – Sept. 2007	<p>University of Oxford, Associate Fellow and Independent scientific consultant on risk governance.</p> <ul style="list-style-type: none"> • I founded my own consultancy providing services of research and writing interdisciplinary scientific reports and publications in the area of risk governance and credibility of expertise, having left employment at Oxford for family reasons. My clients included the Universities of Oxford and Wageningen. • In charge of <i>integrating results from natural and social science work packages in the European Integrated Platform SAFE FOODS</i> (Framework Programme 6) I became lead-author of the main project publication and the reports to the European Commission.
May 2004 – Sept. 2005	<p>University of Oxford, Research Fellow at the James Martin Institute for Science and Civilization at the Saïd Business School.</p> <ul style="list-style-type: none"> • Conducted research on participatory innovation and corporate stakeholder consultation drawing on cultural theory and muddling through specific complex issues in diverse learning communities, a process in which friction seems necessary for developing more socially robust approaches. • As the Institute’s first member of staff (it opened in March 2004) I convened strategy meetings with the Director and affiliates, and was responsible for the Institute’s first seminar series on ‘Technology and democracy’.
Sept. 2000 – Apr. 2004	<p>Harvard University, Fellow at the Science, Technology and Public Policy Program, Belfer Center for Science and International Affairs, Kennedy School of Government.</p> <ul style="list-style-type: none"> • Prof. Sheila Jasanoff introduced me to the research field of ‘Science and Technology Studies’ (STS) and we collaborated on a report on the ‘Credibility of expert advice’ in contribution to the European White Paper on Governance, I had obtained funds from the European Commission Foresight Study Unit. • My comparative research of EU and US risk regulation cultures and the precautionary principle was published in journals dedicated to the natural and social science and considered in policy-making processes. My research on integrated assessment approaches of new selectable marker biotechnologies, was published in the journal <i>Nature Biotechnology</i>, and used by a European Commission Working Group on Antibiotic Resistance Markers; I had obtained funds for this project from Germany’s Federal Institute for Biology (Biologische Bundesanstalt). • Taught a session on risk analysis in the course Environmental and Resource Science for Policy with Prof. John Holdren. • In charge of integrating natural and social science work package results in the EU Thematic Network ENTRANSFOOD (Framework Programme 5), I was first author of the lead- publications, and guest editor of a special issue_ and primary editor of concluding project reports with policy advice to the European Commission.
May 2002 – Dec. 2003	<p>Harvard University, Senior Research Associate at the Harvard Center for Risk Analysis, Harvard School for Public Health.</p> <ul style="list-style-type: none"> • Conducted research on epidemiological methods and utilitarian approaches to cost-benefit assessment and cost effectiveness assessment also used in decision-making on health and safety issues by public agencies of the US federal government this provided a counter point to the pluralist perspectives of STS in part rooted in anthropology on science, technology, and the meaning of progress and human values. <p>I left on my own accord as started relocating to Europe in February 2004.</p>

Jan. 1997 – Aug. 2000	<p>Monsanto International Services S.A., Regulatory Affairs Manager and Scientific Affairs Coordinator, Agriculture.</p> <ul style="list-style-type: none"> • My primary responsibility was to compile risk assessments and interact with experts and officials in regulatory processes in over twenty different countries, allowing comparisons of regulatory and governance processes in practice, across very different social, cultural, economic, and environmental contexts. • Representing industry associations, including at the OECD, I was involved in discussions on regulatory strategy and policy advice from an industry perspective. • Since 1999, I built and led a five-member Scientific Affairs team in charge of outreach to public sector research in sixteen countries, managing a budget of US \$ 1.4 M. • Throughout my time at Monsanto, I received ample training in leadership, a 'Train-the-Trainer' 'Development-Performance-Reward' Programme, presentation-skills and workshop facilitation courses. (I left on my own accord for independent research on national differences in biotechnology governance).
Apr. – Sept. 1996	<p>European Commission, Stagiaire in DG 3. Enterprise. Unit on Biotechnology. Head of Unit: Mr G. Cozigou.</p> <ul style="list-style-type: none"> • I worked on the Environmental and food safety regulation of genetically modified organisms. <p>From Oct.-Dec. I completed the full trimester module on EU Law of the LSE Master on EU: Law, Government and Policy.</p>

RESEARCH ACTIVITIES

CURRENT RESEARCH INTERESTS

Field of knowledge and core concepts: Social and transformative learning for sustainability in complex social-ecological-technological systems; with a current focus on the regeneration of renewable resources such as water and fertile top soil.

Central research question: how to organize transdisciplinary scientific inquiry for better taking into account complexity, contingency, contradictions, uncertainty, ignorance, and open futures, as we shape our intentions and actions on sustainability challenges.

Research approaches and methods: collaborative conceptual systems mapping, scenario and visioning methods, and the co-design of sustainability indicators, citizen science projects, and living laboratories.

Experiences drawn upon: Dr König's transdisciplinary research and teaching benefits from a unique combination of career experiences including as a researcher in the natural and social sciences in academia, as well as working in the private sector, and for intergovernmental organisations. Her work in the area of governance and risk regulation, technology impact assessment, Science and Technology Studies (STS), epidemiology and (eco-)toxicology, genetic engineering and biochemistry in diverse organisational settings all prove highly salient in her current transdisciplinary research and teaching on sustainability science for transforming human-environment interactions.

OVERVIEW ON MAIN CURRENT RESEARCH THAT I RAISED FUNDS FOR AND LEAD AS PI

Project	Duration	Budget (kEuro)	Core questions and methods	Human resources	Funded by...
NEXUS FUTURES	2017-2021	943	Can we improve understandings and action repertoires on challenges at the water-soil nexus with collaborative conceptual systems mapping, and scenarios approaches?	1 Ph.D. (4 years), 1 Post doc (5 years)	Ministry for Sustainable Development and the University of Luxembourg A five year follow-up project to focus on drought resilience with post doc and Ph.D. (801 k, 2022-2027) has been approved*
WATGOV	2017-2021	187	Can citizen science play a role in improving water governance in Luxembourg?	1 Ph.D. (3+1 years)	An Internal Research Project (IRP) grant of the University of Luxembourg set up to foster interdisciplinary and cross-faculty research.

SCHOOL FUTURES	2017-2021	200	Can scenario and systems approaches be designed in order to foster 'transdisciplinary' learning at schools?	1 Ph.D. (4 years)	Ministry for Education, and the Service for Coordination of Research and Innovation and Technologies (SCRIPT))
BIOSPHERE INVEST	2020-2021	54	Innovative future financial instruments to fund the regeneration of resilient ecosystems that provide fundamental ecosystems services with associated impact assessment schemes (first focus on forests).	1 Research Associate (1 year)	The European Investment Bank (STAREBEI scheme)
AKTIOUN NOHALTEGKEET	2021-2025	562	On virtual scaffolding for informal individual and social learning for sustainability transformations	1 Ph.D. (4 years)	Ministry for the Environment, Climate and Sustainable Development
AGROFORESTRY	2021-2022	50	Design and implementation of a participatory approach with future-oriented systems thinking methods to co-create a national strategy for agroforestry, that includes a research and training strategy to underpin social learning for resilient engagement with water and land.	1 year pilot project (Administration de la Nature et des Forêts (ANF, Naturfonds) A five year project proposal with Post Doc and Ph.D. is currently being drafted with the ANF

The signature of a Convention to continue the NEXUS FUTURES Project (2022-2026) by the University is delayed- the Ministry has already signed it.

FUNDING RESPONSIBILITIES AT VARIOUS CAREER STAGES INCLUDED

2021-2025: Aktioun Nohaltegkeet, PI: Ariane König. Budget 562 k Euro.

2021-2022: Agroforestry, PI: Ariane König. Budget: 50 k Euro.

2020-2021: Project BiosphereInvest, PI: Ariane König. Budget: 54 k Euro.

2017-2021: Project 'NEXUS FUTURES', PI: Ariane König. Budget: 943 k Euro

2017-2021: Project 'WATGOV' PI: Ariane König. Budget: 187 k Euro

2017-2021: Project 'SCHOOL FUTURES', PI: Ariane König. Budget: 200 k Euro

2009-2015: University of Luxembourg: Head of Sustainable development. Budget: ~75 000 Euro/year.

2012: Fonds National de la Recherche: Public Lecture Series on Sustainable Development': 3000Euro

2010: Grant by Fonds National de la Recherche for ISCN Symposium in China. Budget: 10 000 Euro.

2005-2007:Part-time independent consultant. Received fees in the order of 15 000 - 20,000 Euro/year.

1998-2000: Monsanto. Head of Scientific Affairs Europe / Africa. Budget of ~1.4 M USD / year.

1993-1995: ESRS grant in support of Ph.D.

RESEARCH TRAINEES – Ph.D. LEVEL

- Maximilian Klein 'On virtual scaffolding for informal individual and social learning for sustainability transformations' started on 15 June 2021. Ongoing. Role: Supervisor, PI.
- Kristina Hondrila 'What is actionable knowledge for sustainable water governance?' started on 15 March 2017 – December 2020. Successful defense on 4 December 2020. Role: Supervisor, PI.

- Karl Pickar 'Co-design of a citizen science tool for sustainable water governance and transformative learning', started on 1 July 2017- successful defense on 16 December 2021. Role: Supervisor, PI.
- Bo Raber 'Transformative learning from collaborative conceptual systems mapping and futures in schools', started on 15 November 2017 – ongoing. Supervisor, PI: Ariane König.
- Paula Hild 'Implementation of the circular economy: Challenges for institutions and practices', Role: member of the .Committee d'Encadrement de Thèse , Supervisor: Prof. Christian Schulz, Ongoing.
- Jan Tobias-Doerr .'Learning from 30 years of transition – A reconstruction of the sustainable development of Beckerich and its implication for Luxembourgish rural development' supervisor Prof. Christian Schulz, My role: Member of the .Committee d'Encadrement de Thèse and vice president of the jury. Completed in May 2019.
- Ante Galich 'The co-production of policy and science in the governance of EU research & innovation policy" co-supervisor with Prof. Robert Harmsen- My role: Scientific contact and vice president of the jury. Completed in February 2015.
- Franklin Feyeh Bahfon on 'Greening Local Economies in Luxembourg: Understanding Nature Parks as instruments of Sustainable Regional Development' co-supervisor with Prof. Christian Schulz. Role : Scientific contact. Completed in May 2015.

RESEARCH SUPERVISED AT MASTERS -LEVEL

- Tea Sikharulize on 'Exploring the challenges to participatory water governance: the case of the Upper-Sûre and Syr River Partnerships in Luxembourg' Masters Thesis prepared as part of the Master in Geography and Spatial Planning at the University of Luxembourg, submitted in July 2018.
- Simone Kolz on 'Climate change in the Himalayas: the role of local adaptation plans for action in Nepal', Masters Thesis prepared as part of the Master in Geography and Spatial Planning at the University of Luxembourg, submitted in September 2016.
- Samuel Evans on 'The governance of biotechnology at WTO: a cultural theory framework', Masters Thesis at the University of Oxford, who was awarded the Dan Gowler Prize for prize for best dissertation in the Management Department of the year at the Saïd Business School.
- Tutorials for Masters Students at the Kennedy School of Government, Harvard University accompanying the course on 'Environmental Science for Policy'. Gave supervisions and tutorials to undergraduates at Cambridge University.

VISITING RESEARCHERS AND SCHOLARS

September 2019- March 2020: Research stay by Ms Yuyu Obara in our research group in Luxembourg. Ms Obara is a Ph.D. candidate with Hideki Maruyama, Associate Professor, Sophia University with the goal of developing a closer collaboration.

10.11.-15.11.2017: Received Associate Professor Yuliana Lavrish from the National Technical University of the Ukraine in Kiev for a one-week research stay, who was interested in the Certificate in Sustainable Development and Social Innovation.

January 2017 to date : Invited as 'Collaboratrice scientifique de l'equipe SEED', Université de Liège, Arlon, Campus Environnement (<http://www.seed.ulg.ac.be/equipes/>)

CONTINUING PROFESSIONAL DEVELOPMENT ACTIVITIES

A course on project management at the University of Luxembourg, FLSHASE (November 2013).

Leadership on the line – a course on [‘Adaptive leadership’ by Ronald Heifetz](#) at the Harvard University Kennedy School of Government, Cambridge MA, USA. (January 2004-followed as an auditor, handed in a final report).

‘Essential facilitation’ by [‘Interaction Associates’ Cambridge MA, USA](#): A three day programme conveying essential skills for guiding groups in every-day life as well as through difficult situations. (January 1999).

Environmental and Resource Science for Policy, a graduate course (ENR-100) at the Kennedy School of Government, Harvard University (Followed as an active auditor, handing in all assignments, September – December 2000).

Trained as a ‘Development, Performance Rewards’ Champion at Monsanto (various locations around the world): Train-the-trainer programme for implementing a new management and career reward scheme in the company, in which career rewards are based on the performance of direct reports. (June 1998- March 2000).

Executive Presentation Skills training by Communispond, London, UK: First training in business presentation skills whilst at Monsanto. (May 1999).

Methodology and principles of toxicology. A certified course on chemical hazard and risk assessment by [BIBRA International](#). (27 April – 1 May 1998).

EU law section of the Masters programme on ‘EU: Law, Government and Policy’ at the London School of Economics, London, UK. (1 October 1996 – 15 January 1997). Completed the entire law section of the Masters programme (Certified).

INVITED TALKS AND SEMINARS

2021-2022: Course on future oriented systems thinking, Sophia University, Tokyo, Japan.

2021. Invited presentation: 30. Wiss. Kolloquium ‘Von der Umweltstatistik zur Nachhaltigen Entwicklung’ A jointly prepared presentation on the potential of citizen science as data source for official statistics with Dr Jacek Stankiewicz on 19.11.2021

2021: Invited presentation: A jointly prepared presentation on the potential of citizen science as data source for official statistics with Dr Jacek Stankiewicz, at the European Statistics Day ‘ESAC Workshop on non-traditional data sources and data science for official statistics’ organized by the European Statistical Advisory Committee on 20.10.2021

2021: Invited presentation and moderator of round table: Kolloquium zum Weltwassertag 2021. 20. March 2021 – virtuelle Konferenz. Neue Ansätze zur Oeffentlichkeitsarbeit mit Citizen Science und Reallaboren.

2020: [TEDx Luxembourg Talk on restoring the foundations for life on earth](#)

2020: Key note speech at the [Jungerlinster Climate Crisis Conference](#) on 10.12.2020.

2020: Key note on scenarios for climate resilience at the CIPU workshop on 9.12.2020.

2020& 2021: Invited seminar and workshop on systems approaches for collaborative mapping of complex social-ecological-technological systems at the University of Namur, Belgium, in the programme on ‘Smart ruralities’ in November 2020&2021.

2019: Invited summer school seminar and workshop on systems approaches for sustainable campus development at the University of Hokkaido, Sapporo, Japan. On 2 August 2019.

2019: International Leverage Points Conference: Presentation in a session on collaborative methods at the Leuphana University from 7-9 February 2019.

2018: BENELUX seminar on Environmental and Sustainability Education in the BeNeLux Presenter and expert panel member on 22 November 2018.

2018: Invited seminar and workshop on systems approaches for collaborative mapping of complex social-ecological-technological systems at the University of Namur, Belgium, in the programme on 'Smart ruralities' on 9 November 2018.

2018: 2018 October Days for Sustainable Development at the European Investment Bank and EIB Institute on "Financing the SDGs". Member of expert panel on 'UN Sustainable Development Goal 6 on Water' on 11 October 2018.

2018: Invited summer school seminar and workshop on systems approaches for sustainable campus development at the University of Hokkaido, Sapporo, Japan on 4 August 2018.

2018: Institut für Technikfolgenabschätzung und Systemanalyse / ITAS, at the Karlsruhe Institute for Technology: Invitation as guest speaker on 'Developing transformative sustainability science in Luxembourg: Concepts, methods and practices' by Prof. Dr Grunwald on 16 January 2018.

2017: Invited summer school seminar and workshop on systems approaches for sustainable campus development at the University of Hokkaido, Sapporo, Japan on 23 July 2017.

2017: Invited to lead a seminar and present on education and learning in living laboratories at the Interkolloquium Reallabore Stuttgart on 6 July 2017.

2016: Invited to chair a session on 'The social dimension of statistics' at the Conference of European Stakeholders in Statistics in Budapest on 20 and 21 October.

2016: Invited to co-organised, co-chaired and presented at a session on sustainability indicators with Walter Radermacher at the Workshop on the development and use of indicators of the European Statistical Advisory Committee in The Hague on 10 May 2016.

2016: Invited expert and panel member at the Interkolloquium Reallabore Stuttgart on 29 April 2016.

2015: 2015 October Days for Sustainable Development at the European Investment Bank and EIB Institute: Panel chair and contributor of a panel on 'What are the links between the United Nations Sustainable Development Goals and the Europe 2020 targets'. On 28 October 2015.

2014: International Conference of the Sustainable Campus Network of Japan, University of Hokkaido, Sapporo, November 2014: Invited Key Note Speaker.

2014: Conference on Sustainability Science of the International Alliance of Research Universities: Invited Session Co-Chair and presenter on 'Education in sustainability'. Copenhagen, Denmark.

2010: Organisation of the International Symposium of the International Sustainable Campus Network in the Luxembourg Pavillion at the Shanghai Expo and at Tongji University (2 days, 92 participants)

2009-2015 (annually): The International Sustainable Campus Network: Chair of ISCN Working group 3, annual organization and lead of the Working Group sessions at all international conferences in that time period.

König, A. (2000). International Society for Risk Analysis - 2000 Edinburgh, Scotland': Presentation on Risk assessment of antibiotic resistance markers in genetically modified crops. In 'Proceedings of the International Congress on Foresight and Precaution.'

König, A. (2000). Development and biosafety aspects of transgene excision methods. In 'Proceedings of the 6th International Symposium on the Biosafety of Genetically Modified Organisms - 2000 Saskatchewan, Canada'.

König, A. (1998). Brighton Crop Protection Conference: Comparison of the EU and the U.S. regulatory framework for the environmental safety assessment of transgenic crops - an industry perspective. In 'Proceedings Brighton Crop Protection Conference - 1998 Monday Symposium, Brighton, UK'.

König, A. (1998). Genetically modified crops in the European Union - the regulatory framework and public acceptance. In 'Proceedings of the International Congress of the International Association of Plant Tissue Culture and Biotechnology - 1998 Jerusalem, Israel'.

EDITORIAL AND REVIEWING ACTIVITIES

Research: External reviewer for the European Research Council in 2020 & 2021. Expert for the evaluation of FP6 SME cooperative research proposals in health and biomedicine (October 2005). Expert on a panel for evaluation of biosafety research for German Federal Ministry for Research and Education.(2000-2002).

Journals: reviewed proposed papers for a wide range of international peer reviewed Journals including in *Nature Biotechnology*, *Journal for Cleaner Production*, *Futures*, *International Journal for Sustainability in Higher Education*, *Minerva*, 'Science, Technology and Human Values', *Food Control*, *Sustainability Science*, *Current Opinion in Environmental Sustainability*, and *Risk Analysis*.

Special issues: Served as **co-editor** in the international peer reviewed Journals *Current Opinion in Environmental Sustainability* (2015) (5 year impact factor= 5,545), and *Environmental Education Research* (2018) (2017 Impact factor = 2,585).

Books edited: *Sustainability science: Key Issues* (Routledge, 2018); *Regenerative Sustainability in Universities and Cities: The role of living laboratories* (Edward Elgar, 2013).

AWARDS

- 2000 Awarded EU Fulbright Fellowship to conduct research on science and technology governance at the Harvard University, Kennedy School of Government, I returned the grant at the end of the 6 months period as I chose to prolong my stay over 6 months in duration.
- 1994 Emmanuel College Quartercentenary Studentship funding Ph.D. research.

TEACHING - OVERVIEW

2021-to date: Course on future-oriented systems thinking, Sophia University, Tokyo, Japan.

2020-todate: Transferable skills doctoral seminar on Science in Society, University of Luxembourg.

2018 – to date: Invited teaching at the Université de Namur, Belgium: Contribution of lectures and workshops to a course on Systems thinking in the Master of Smart Ruralities developed by Prof. Nicolas Dendoncker.

2017 - 2019: Invited teaching at the University of Hokkaido, Sapporo, Japan: Invited to co-design and contribute lectures and a workshop to a course in Summer School of Hokkaido University on Sustainable campus development, systems thinking and futures developed by Ass. Prof. Maki Ikegami.

2013-to date: Developed and direct the Certificate in 'Sustainability and Social Innovation' at the University of Luxembourg: An innovative study programme with 2 core courses for 6 ECTS each on 'Science and Citizens meet Challenges of Sustainability' and on 'Social Enterprise and Social Innovation', 2 auxiliary course, project work, and internship opportunities for transformative learning for sustainability. I developed the course on environmental science for 'Global Environmental Change in the Anthropocene' the Master in Geography and Spatial Planning that can also count towards the Certificate.

2014- 2017: Doctoral school seminars: Co-lead and development of the programme for the interdisciplinary strand on sustainability of the IPSE doctoral school. The seminar on 'The practice of

critical interdisciplinarity' will be offered as transversal skills course at the university cross-faculty level starting in 2020.

2009-2012: Interdisciplinary cross-faculty courses: Developed and taught the University of Luxembourg's first interdisciplinary cross-faculty courses (for students and professionals) on 'Science and citizens meet challenges of sustainability'; and 'Social enterprise and social innovation'.

2002-2004: Executive training: Taught in executive training programmes on Competitive Advantage Regulation and the Environment (CARE) offered by the Massachusetts Institute of Technology and on health risk assessment at the Harvard School of Public Health.

2001-2004: Training at post-graduate-level: Taught in post-graduate courses on environmental science for policy and environmental and health risk assessment at the Harvard Kennedy School of Government, Oxford University Saïd School of Business, and at Georgetown University.

1992-1995: Training at undergraduate level: Taught and supervised undergraduate students at the University of Cambridge, Emmanuel College: Taught tutorials and laboratory classes in biochemistry and molecular biology.

EXPERT AND ADVISORY POSITIONS

November 2021	Appointed per government decree as one of seven experts (four from Luxembourg, 3 international) on the new national advisory panel 'Observatoire de la politique du Climat'
April 2021 April 2020	External expert review of proposals for the European Research Council.
Juli 2021	Invited as external reviewer for the evaluation of the Karlsruhe Institut für Technologie Zentrum Mensch und Technik.
January 2022 January 2021 January 2020	Invited expert on the scientific advisory panel of the project 'Energietransformation im Dialog' at the Karlsruhe Institut für Technologie, Institut für Technikfolgenabschätzung und Systemanalyse.
June-August 2019	Invited expert committed to review proposals for the FWF Austrian Science Fund for their call "Top Citizen Science 2019".
January 2018	Appointed Board member of the Société d'Impacte Sociétal (S.I.S.) 'Youth and Work' founded by Mrs Ariane Toepfer for supporting youth who are neither employed nor at school.
January 2017	Appointed Board member of the a.s.b.l. TIIME co-founded by Mrs Hedda Pahlson Moeller for supporting activities to developing social impact investment ecosystem in Luxembourg.
April 2016 & April 2017	Invited expert to assist in knowledge transfer and evaluation activities for the initiative 'Real Labore in Baden-Württemberg'
January 2016 to date	Appointed member of the European Statistical Advisory Committee (ESAC) of the European Statistical System to serve as expert on sustainability, environment and agriculture.
January 2013 – 2020	Member of the Luxembourg 'Conseil Supérieur pour un Développement Durable'. Co-lead of the project 'Scenarios for education in Luxembourg in the face of 21st century sustainability challenges'. Lead of the working groups to evaluate the national action plan on climate change, and development of a knowledge platform for sustainability initiatives for Luxembourg (ongoing)
April 2016 April 2015 April 2014	Invited expert to evaluate and provide feedback on the sustainability report developed in accordance with guidance of the Global Reporting Initiative by the Luxembourg national enterprise POST. Over three consecutive years.
April 2009 – December 2016	Chair of a Working Group of the International Sustainable Campus Network (ISCN), and lead-author of ISCN Charter committing signatories to regular reporting. Over 50 Universities signed.

April 2012 –December 2015	Appointed Member of the national ‘Groupe de Réflexion: Indicateurs Développement Durable du Ministère pour le Développement Durable et Infrastructures’
September 2012 September 2013	Jury member of the national competition 123 Go Social awarding business plans for social enterprise.
January 2012 – May 2013	Expert for the OECD-LEED study on Indicators for Local Green Growth Transition in Alzette-Belval – a cross-border study.
March-May 2011	Invited international expert for a campus planning project for the regional government of Canton Zürich, Zentrale Hochschule für Angewandte Wissenschaft, and Baseler & Partner.
October 2005	Expert for the evaluation of FP6 SME cooperative research proposals in health and biomedicine.
January 2000- December 2002	Expert on a panel for evaluation of biosafety research for German Federal Ministry for Research and Education.
May 2001- January 2002	As expert consultant to OECD I developed a research report on public participation in activities on biosafety under the auspices of intergovernmental organizations including the OECD selected organisations of the United Nations.
January – September 2000	Expert advisor to the European Commission Forward Studies Unit contributing background paper on democratising expertise and a presentation towards the ‘White Paper on Governance’.
1998-1999	Invited expert to formally represent the Life Sciences Industry as the Business and Industry Advisory Committee (BIAC) representative at OECD meetings of the Novel Foods Task Force.

LIST OF PUBLICATIONS

Over 50 publications, of which 32 are peer-reviewed publications in international journals. 37 are first author publications.

[Google scholar data](#) after deletion of wrongly attributed papers:

Citations	3457
h-index	22
i10-index	27

Research Gate:

Citations:	2440
Research Interest	1359

Scopus [Author ID: 56283775800](#) (based on thirty two papers): h-index 19

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"Therefore, it is not the case that by means of likenesses a finite intellect can precisely attain the truth about things. For the intellect is to truth as an inscribed polygon is to the inscribing circle. The more angles the inscribed polygon has, the more similar it is to the circle. ..." Nicolas Cusa (1440). *De Docta Ignorantia* (Of Learned Ignorance)