

Humane Artificial Intelligence

Cultural and Ethical Diversity and The Challenges of Aligning Technology and Human Values



September 7-10, 2019

East-West Center, Imin Conference Center
Honolulu, Hawai`i



Symposium Schedule

All symposium sessions will be held on the second floor of the East-West Center's Imin Conference Center. Symposium participants include plenary speakers, dialogue partners, and other guests.

Saturday, September 7

Plenary Speaker and Dialogue Partner arrivals

- 6:00pm: Opening Evening Reception, Imin Conference Center Lanai
[light food and refreshments served]
- 6:15-6:30pm: Official Welcome: Dr. Richard Vuylsteke, President, East-West Center
Official Welcome: Dr. Vassilis Syrmos, Vice President for Research and Innovation, University of Hawai'i
- 7:15pm: Adjourn, Dinner on Own

Sunday, September 8

Free Morning

- 1:00-1:30pm Symposium Introduction*, Asia Room
Peter D. Hershock (East-West Center, Honolulu)
"The Intelligence Revolution: An Ethical Singularity"
- 1:30-2:30pm Plenary Presentation*, Asia Room
Danit Gal (Keio University, Tokyo)
"Human-Centricity in AI: Between East and West"
- 2:30-2:45pm Break
- 2:45-3:45pm Plenary Presentation*, Asia Room
De Kai (Hong Kong University of Science and Technology; International Computer Science Institute, UC Berkeley)
"Prescriptive versus Descriptive AI Ethic"

Abstract: With great power comes great responsibility. In an era where AI is augmenting every single human with exponential power, what ethics is needed for humankind to survive? From Asimov's Three Laws of Robotics to Europe's GDPR, far too much thinking remains stuck in an incrementalist prescriptive mindset revolving around deontological ethics based on the metaphor of logical rules. Rule based AI ethics will fall short — for the exact same reasons that rule based AI fell short.

Instead, surviving AI will necessitate a massive shift to a descriptive mindset exploring virtue and consequentialist ethics — for the same reasons, it turns out, as machine learning’s explosive success.

3:45-4:45pm Town Hall Discussion, Asia Room
Moderator: Christina Monroe and Gretchen Alther (East-West Center)

Each of the four Plenary Speakers presents a brief summary of his/her presentation to enable a comprehensive view of the issues to be covered. What themes are emerging from the presentations? What do they offer to considerations around Humane Artificial Intelligence?

Free Evening

Monday, September 9

8:45-9:30am Travel reimbursement check distribution, outside Asia Room

9:30-10:30am Plenary Presentation*, Asia Room
Alexander Means (University of Hawai`i, Manoa)
“Computational Cities and Citizens: Silicon Valley Visions of the Future of Learning and Creativity”

10:30-10:45am Break

10:45-11:45am Plenary Presentation*, Asia Room
Sandra Cortesi (Harvard University, Berkman Klein Center)
“Youth and Digital Life: AI Ethics for the Next Generation”

11:45am-12:15pm AI Scenarios: A 4-Dimensional Framework
Deane Neubauer (East-West Center)

To facilitate focused work in the afternoon scenario building activity, this session will introduce four illustrative scenarios of AI futures. The afternoon scenario-building process will be clarified and placed in the context of current AI development models.

12:15-1:15pm Lunch on own

1:15-2:45pm Concurrent Small Group AI Scenario-Building Discussions

Participants utilize fore-sighting tools to co-create four future scenarios. Participants’ own identities, work and ethical commitments provide the key drivers for the scenarios. Participants then place these scenarios into a three-dimensional matrix: most likely/least likely; most desirable/least desirable; most humane and equitable/least humane and equitable.

Asia Room
Pago Pago Room
Washington Room
Tagore Room
Mandarin Room

2:45-3:00pm

Break

3:00-4:15pm

Plenary Discussion of AI Scenarios, Asia Room

Participants share insights, agreements, divergences, and reflections arising from the small group discussions. What needs to be discussed in more detail or from additional perspectives? What is not included in the conversations but should be?

Dinner on Own, Free Evening

Tuesday, September 10

9:00-10:30am

Concurrent Small Group AI Scenario Strategy Discussions

Working in the same small groups, participants will add a 4th dimension to their group-generated scenarios by discussing strategies for developing and operationalizing shared commitments to the two most desirable, humane and equitable scenarios developed on Monday afternoon. The effort here is to move from a predictive mind(set) to an anticipatory/improvisational mind(set), considering how best to realize optimal integrations of AI into human societies.

Group 1, Asia Room
Group 2, Pago Pago Room
Group 3, Washington Room
Group 4, Tagore Room
Group 5, Mandarin Room

10:30-10:45am

Break

10:45-11:45am

Plenary Discussion of AI Scenario Strategies, Asia Room

Participants share insights, agreements, divergences, and reflections arising from the small group discussions, and will identify five key strategic domains for actualizing commitments to humane and equitable AI that are sensitive to and substantively value cultural and ethical differences.

11:45-1:00pm

Lunch on Own

1:00-2:30pm

Concurrent Small Group Strategic Theme-Based Discussions

In each of five new small groups, participants will dig more deeply into one of the strategic domains identified in the morning as key to realizing more human and equitable AI, and seeking more nuanced insights regarding how to generate globally shared values and commitments.

Strategic Domain 1, Asia Room
Strategic Domain 2, Pago Pago Room
Strategic Domain 3, Washington Room
Strategic Domain 4, Tagore Room
Strategic Domain 5, Mandarin Room

2:30-2:45pm

Break

2:45-3:45pm

Plenary Discussion of Themes, Asia Room

3:45-5:00pm

Culminating Session, Humane AI: A Shared Agenda & Next Actions

Participants reflect on and document ideas and actions generated from the symposium, with an emphasis on identifying opportunity spaces for the East-West Center to facilitate clarity about and commitments to more humane and equitable AI futures.

6:00-7:30pm

Closing Dinner, Ohana Room, Imin Center

Plenary Speaker Bios:

Sandra Cortesi is a Fellow at the Berkman Klein Center for Internet and Society at Harvard University and the Director of Youth and Media. She is responsible for coordinating the Youth and Media's policy, research, and educational initiatives, and is leading the collaboration between the Berkman Klein Center and UNICEF. At Youth and Media Sandra works closely with talented young people and lead researchers in the field as they look into innovative ways to approach social challenges in the digital world. She focuses on topics such as inequitable access, information quality, risks to safety and privacy, skills and digital literacy, and spaces for participation, civic engagement, and innovation. Sandra earned her PhD in Psychology from the University of Basel, Switzerland, and works in close collaboration with the Digital Asia Hub.

De Kai is a Distinguished Research Scholar at the University of California, Berkeley International Computer Science Institute and Professor of Computer Science and Engineering and Hong Kong University of Science and Technology, which he joined in its founding year in 1992 after a PhD in Computer Science from UC Berkeley and a postdoctoral fellowship at the University of Toronto. He was selected by the Association for Computational Linguistics as one of only 17 scientists worldwide to be awarded the honor of founding ACL Fellow in 2011, with a citation for "significant contributions to machine translation and the development of inversion transduction grammar" which

pioneered the integration of syntactic and semantic models into statistical machine translation paradigms. De Kai has served on the Executive Committee of the Association for Computational Linguistics (ACL), and as Associate Editor of *Computer Speech and Language*, *AI Journal*, and *ACM Transactions on Speech and Language Processing*, and on the Editorial Boards of *Computational Linguistics*, *Machine Translation*, and *Journal of Natural Language Engineering*.

Danit Gal is Project Assistant Professor at the Cyber Civilizations Research Center at the Keio University in Tokyo, Japan. She specializes in technology geopolitics, ethics, and security. Danit chairs the IEEE P7009 standard on the Fail-Safe Design of Autonomous and Semi-Autonomous Systems and serves on the executive committee of The IEEE Global Initiative on Ethics of Autonomous and Intelligent Systems. She is an Associate Fellow at the Leverhulme Centre for the Future of Intelligence at the University of Cambridge and an Affiliate at the Center for Information Technology Policy at Princeton University. Danit also serves as a board trustee at the Seed Token Project and is an advisor to Ladies Who Tech in China. Her recent works include the chapter 'Perspectives and Approaches in AI Ethics: East Asia' in the forthcoming Oxford Handbook of Ethics of AI and the chapter 'The Anthropomorphized Tools Paradox: Feminized Digital Assistants' in the forthcoming Open Access book "AI for Everyone".

Alexander J. Means is Assistant Professor of Educational Policy with Global Perspectives in the Department of Educational Foundations, University of Hawai'i at Mānoa. He is the author most recently of *Learning to Save the Future: Rethinking Education and Work in the Era Digital Capitalism* (Routledge, 2018); *Educational Commons in Theory and Practice: Global Pedagogy and Politics* (Palgrave, 2017); and *The Wiley Handbook of Global Education Reform* (Wiley-Blackwell, 2018). His research examines educational policy and organization in relation to political, economic, cultural, technological, and social change.

East-West Center Staff Bios:

Gretchen Alther builds programs that strengthen individual and community leadership. She is expanding the East-West Center's leadership programs for women, and has managed programs to incubate leadership among women in the Pacific Islands. Ms. Alther also directs the Center's flagship residential course, the Asia Pacific Leadership Program, and contributes to other short- and long-term training both in Hawaii and across the region. She designs and delivers curriculum that supports experiential learning and strategic thinking across a range of topic areas. With over 15 years of experience as an international educator and humanitarian, Ms. Alther infuses her program design with a commitment to equity and to grassroots communities. Ms. Alther has recently worked with senior UNFPA professionals in the Arab States Region to strengthen programming for community resilience. As an occasional consultant with the EarthWatch Institute, she facilitates sustainability leadership programs around the world for global corporations. Previously, Ms. Alther designed and managed multimillion-dollar programs to support disaster relief, conflict zone aid, and resilience in marginalized communities in the US, Myanmar, Pakistan, Nepal, Gaza, Colombia, Haiti, and beyond. She earned an M.A. in Sustainable International Development from the Heller School of Social Policy and Management at Brandeis University, a postgraduate certificate from the East-West Center, and a B.A. in Latin American Studies and Natural Resources Management from Texas A&M University. Ms. Alther was selected as a 2018 Rotary Peace Fellow and earned a professional certificate in peace and conflict resolution at Chulalongkorn University in Bangkok.

Peter D. Hershock is Director of the Asian Studies Development Program and Education Specialist at the East-West Center in Honolulu, and holds a Ph.D. in Asian and Comparative Philosophy from the University of Hawai'i. His philosophical work makes use of Buddhist conceptual resources to address contemporary issues of global concern. He has authored or edited more than a dozen books on Buddhism, Asian philosophy and contemporary issues, including: *Liberating Intimacy: Enlightenment and Social Virtuosity in Ch'an Buddhism* (1996); *Reinventing the Wheel: A Buddhist Response to the Information Age* (1999); *Chan Buddhism* (2005); *Buddhism in the Public Sphere: Reorienting Global Interdependence* (2006); *Valuing Diversity: Buddhist Reflection on Realizing a More Equitable Global Future* (2012); *Public Zen, Personal Zen: A Buddhist Introduction* (2014); *Value and Values: Economics and Justice in an Age of Global Interdependence* (edited, 2015); and *Philosophies of Place: An Intercultural Conversation* (edited, 2019). His current research, initiated as a 2017-2018 Fellow of the Berggruen Institute in China, focuses on the personal and societal impacts of the attention economy and artificial intelligence.

Christina Monroe is an international leadership educator, curriculum designer and program manager with 15 years' experience working with professionals and students from 50+ countries. She has won over \$5 million in grants from the U.S. State Department, Corporation for National Service, and National Education Association to develop international and experiential programs for several institutions. She currently directs the Leadership Program under the East-West Center's Professional Development Program, which includes the Asia Pacific Leadership Program, Pacific Islands Leadership Program, Institutes for Natural Resource Managers, North Pacific Woman's Action Program and other customized leadership programs. As a 2018 Australian Government Endeavour Executive Fellow, Christina researched impact investing and new philanthropy models at the Melbourne Women's Fund. Christina is certified by Georgetown University as an Organizational Change Leadership Consultant and by the College of Executive Coaching as Professional Coach. Her past research in the U.S. and Europe focused on cognitive development during international exchange experiences and on ethnic and gender self-identification in foreign settings.

Deane Neubauer is Professor Emeritus of Political Science at the University of Hawaii, Manoa. He currently also serves as the Associate Director of the Asia Pacific Higher Education Research Partnership (APHERP), headquartered in Hong Kong, which conducts a wide range of policy-focused research with a special focus on higher education. He is also current an adjunct senior fellow of the East-West Center, in Honolulu, Hawaii. Deane holds a BA from the University of California, Riverside, and MA and PhD degrees from Yale University. Over the course of his career he has focused on a variety of political and policy areas including democratic theory, public policy, elections and various policy foci, including education, health, agriculture and communication, globalization and technology change. He has held a wide variety of administrative positions at the University of Hawaii, Manoa and the 10 campus University of Hawaii system. He also has over twenty years of experience in U.S.-oriented quality assurance.

Dialogue Partner Bios:

Sonja M. Amadae is currently a Professor in Politics at the University of Helsinki, Finland and also holds appointments of Associate Professor of International Political Economy in Politics at Swansea University, Wales; and Research Affiliate in Science, Technology, and Society at MIT. She has two major research projects underway that are relevant to the Symposium. The first project considers the digital revolution and its implications for liberal democracy. This research initiative includes

analyzing the decision technologies governing the nuclear security complex and their basis in artificial intelligence systems. The second research project investigates how neoliberal capitalism anticipates the political illiberalism which stokes nationalist populism. Her publications include “Game Theory, Cheap Talk, and Post-Truth Politics,” “Computable Rationality, NUTS, and the Nuclear Leviathan,” and *Prisoners of Reason: Game Theory and Neoliberal Political Economy* (Cambridge University Press 2016). Amadae received a PhD in History of Science from University of California, Berkeley concentrating on the social sciences.

Alexis Elder is an assistant professor of philosophy at the University of Minnesota Duluth. She earned her PhD in Philosophy from the University of Connecticut in 2013. Her research involves the intersection of ethics, robotic and information technologies, social philosophy, social ontology, and philosophy of mind. She draws on ancient philosophy - primarily Chinese and Greek - to think about ethical issues with emerging technologies. Her published works include *Friendship, Robots, and Social Media: False friends and second selves* (Routledge 2018) and “Conversation from Beyond the Grave? A Neo-Confucian ethics of chatbots of the dead”, published this year in the *Journal of Applied Philosophy*.

Anne Gibbon is passionate about designing experiences that support leaders in making better decisions. She is pursuing a PhD in Design and Data Visualization, and growing an immersive data visualization startup. Anne graduated from the Naval Academy in 2003, setting the 2k erg record and becoming the first woman at the school to box competitively. Through 10 years of service Anne moved from roles including navigator of a warship, admiral’s aide, and leadership instructor. Her last tour was at Naval Special Warfare Development Group, where she helped to found an internal think tank. Since leaving the Navy she completed a fellowship at Stanford’s Design School and went on to consulting. Anne spent the last few years in New Zealand working with Maori tribes, co-designing innovation strategies.

Shawn Hall. As a telecommunications professional I have operated in practically every capacity of data communications since 1984. My initial work in data communications was as a Multi-channel communications Sergeant in the U.S. Army, 82nd Airborne division. Academically, after earning a B.S. in Data Communications and Media (Summa Cum Laude) at New York University, I participated in the East West Center’s Asia-Pacific Leadership Program where I focused on GIST in China, examining the impact of the then fast growing cellular telecommunications market, and how the ubiquity of the medium was quickly becoming instrumental in many aspect of social change. Subsequently, I began work at Verizon Communications in New York City, where I was a Senior Telecommunications Technical Associate, and returned to New York University to earn a technology-focused MBA at NYU-Polytech (now Tandon School of Engineering), examining the management of next-generation communications such as data-streaming, next-generation networks, edge networks, social media, and IOT. Currently, I am a Senior Telecommunications Engineer and am in the early stages of completing an MS in Business Analytics at the Whitman School of Business at Syracuse University.

Jesús Ilundáin-Agurruza is Professor and Chair of the Philosophy Department at Linfield College (Oregon). A former president of the International Association for the Philosophy of Sport (IAPS), his areas of expertise include phenomenology, philosophy of mind, comparative philosophy, and the philosophy of sport. Regularly taught courses: philosophy of mind, aesthetics, sport philosophy,

philosophy East/West, Twentieth Century philosophy, Contemporary Topics, and Philosophy and Literature. Forthcoming representative work: “Embodied Cognition and Sport Psychology”, with M. Cappuccio. *The Routledge International Encyclopedia of Sport and Exercise Psychology*; “Dewey Goes the Distance: On Habit, Radical Enactivism, and Endurance Sports” with Gallagher, Hutto & Beam. *American Pragmatism and Endurance Sports*; “Self- and other-awareness in joint expert performance, with Shaun Gallagher, *The Routledge Handbook of Skill and Expertise*. His current research program involves an interdisciplinary and comparative examination of expertise in sports, martial and performing arts.

Sonoo Thadaney Israni, Executive Director, Presence, a Stanford Medicine Center + co-chairs the National Academy of Medicine’s Working Group for Artificial Intelligence in Healthcare and co-shepherds their Technology across the Lifecourse Group. After decades of working in Silicon Valley, Sonoo has been a Stanford University entrepreneur for 10 years - to launch new centers and program. These include the MSc. in Community Health and Prevention Research, the Stanford WSDM (Women and Sex Differences in Medicine) Center, the Diversity-First Gen Office, a Restorative Justice Pilot and more. She teaches coursework in Leveraging Conflict for Constructive Change, Leadership Skills and Mediation. She has an MBA, a BA in Psychology, with Minors in Sociology and Education, and a Post-Baccalaureate in Mass Communications. She is a trained Mediator and Restorative Justice practitioner, and co-chairs the Commission on Juvenile Delinquency and Prevention (San Mateo County), where she initiated efforts to seek options to juvenile incarceration.

Samik Kharel. I am currently a researcher in new media with an interest in Internet culture and visual culture. I received my Masters in Media Arts Cultures as part of Erasmus Mundus of the European Union. Over the years, I have been involved in myriad of things with eclectic mix of interests- working as a journalist, freelance writer and communication consultant for national and international organization. Together I have also been actively participating in workshops and conferences on Internet governance, social media, development communications, artificial intelligence and ICT policies. I am very keen about digital platforms and technologies. Relating it with the humanities and arts, I like to explore the new media and its generative content. My interest with AI lies also in its ethics of it as well as AI for development. Currently, I also teach philosophy to business students.

Kangkyu Lee was born in Seoul, South Korea and is currently studying at the Yenching Academy of Peking University as a 4th cohort Yenching Scholar. He graduated from Georgetown University with an M.A. in Asian Studies and an A.B in International Affairs from the University of Georgia magna cum laude. Kangkyu also studied as a Japanese government-funded JASSO fellow to conduct research on the impact of Japanese public opinion on foreign and domestic policy as an exchange student at Osaka University. Prior to coming to Beijing, he has worked as an East Asia Domain Expert at Dataminr, Inc in New York, and at several Washington, DC based think tanks, such as the Center for Strategic and International Studies, the Sasakawa Peace Foundation, and the East-West Center. He aims to bring political psychology into East Asia-focused political science academia and investigate its normative implications in fields such as behavioral economics and political behavior.

Sangmin Michelle Lee is Professor of Global Communication at Kyung Hee University in South Korea. She received her MA and Ph.D. from Pennsylvania State University. She also participated in the Center for Language and Technology at University of Hawaii, Manoa as a visiting scholar (Dec,

2018-May, 2019). Her research area is technology-supported language learning, and her interests include game-based learning and design, digital creativity, and utilization of AR, VR, and AI in foreign language learning. Her most recent publications include students' creativity in game-based language learning, reconceptualization of context in the AR-based learning environment, impact of machine translation on foreign language learning, and teacher motivation based on the ARCS model. She is currently conducting research on machine translation and teacher training preparing for the Fourth Industrial Revolution in education.

Yu-Hsuan “Yush” Lee is a seasoned professional with over 13 years of experience in the venture capital industry and technology sector. He is the founder of Asia Venture Law, which specializes in representing startup technology companies and venture funds in Asia. Previously, he was the SVP of Corporate Development and Legal for a venture-backed technology company focusing on internet media. He started his career at Gunderson Dettmer, where he represented and counseled numerous startups and venture funds all over the world through their entire life cycle – incorporation/formation, fundraising, and exit. He has a JD from Harvard Law School and a BA from Amherst College.

Nina Lin was born in Japan and raised in Hawaii. Her desire to understand both people and spaces naturally led her to explore the design industry at Academy of Art University in San Francisco. After completing a degree in Interior Architecture & Design in 2013, she began her on-going independent studies on alternative education and self-directed learning. Nina's passion for learning and her calling to create spaces that support young learners and their families stems from her vision of the space she would have thrived in as a child. Her experience as a resident facilitator at Agile Learning Center (ALC) in New York City provided her with the foundational support in establishing the first ever self-directed learning center in Hawaii — Agile Learning Center Oahu. Since then, Nina has shifted her focus on the new horizon of opportunities surrounding digital learning spaces and artificial intelligences while continuing to consult with families that are interested in exploring the philosophies and practices of self-directed learning. As an extension to her passion for living and learning spaces, Nina is also currently a licensed real estate agent in the state of Hawaii.

JeeLoo Liu is Chair and Professor of Philosophy at California State University, Fullerton. Her primary interest is to reconstruct Chinese philosophy analytically, in topics such as Chinese metaphysics, Confucian moral psychology and Neo-Confucian virtue ethics. In 2019 she is named Andrew Carnegie Fellow for her new research topic: Confucian Robotic Ethics. She has published *Neo-Confucianism: Metaphysics, Mind, and Morality* (Wiley-Blackwell, 2017), *An Introduction to Chinese Philosophy: from Ancient Philosophy to Chinese Buddhism* (Wiley-Blackwell, 2006), and she is a co-editor of *Consciousness and the Self* (Cambridge UP, 2012) and *Nothingness in Asian Philosophy* (Routledge 2014). She is currently the Executive Director of the International Society for Chinese Philosophy (2017-2022).

Ernest Chi Hin Ng is an Honorary Assistant Professor at the Centre of Buddhist Studies (CBS), the University of Hong Kong (HKU), where he teaches an undergraduate course on Buddhism and Economics. His research interests include Buddhist Economics, the intersection of spirituality and materiality, sustainable decision-making and mindfulness. He is passionate about the education and research on the integration of sustainable developments, wisdom tradition and market economy. He is committed to the developments of the young generation and future leaders, serving as mentors for various universities. He is currently the Chief Executive Officer at Tung Lin Kok Yuen, a Buddhist

NGO with over 80 years of history dedicating to Buddhist teachings, education, and community services in Hong Kong. Prior to that he was the Chief Investment Officer at Sumeru Capital, an asset management company focusing on the Greater China markets. Dr. Ng graduated Phi Beta Kappa from the University of Chicago with Bachelor of Arts in Economics and Master of Arts in International Relations. He received a Master of Buddhist Studies and Doctor of Philosophy from the CBS, HKU. He was a Sir Edward Youde Scholar and currently a Fellow at the European SPES Institute.

Christine Ngoc Ngo is Assistant Professor of Economics at Bucknell University in Pennsylvania. She received a Ph.D. in Economics from the School of Oriental and African Studies (SOAS), University of London in the United Kingdom and a Juris Doctor from the University of California Hastings College of the Law in San Francisco. She is the author of *Industrial Development in Planned Economies: Rent Seeking and Politico-Economic Interplay in Vietnam* (Routledge, forthcoming). She has published papers in *Journal of Evolutionary Economics*, *Review of Political Economy*, *Journal of Economic Issues*, *Canadian Journal of Development Studies*, *Journal of Contemporary Asia* and *European Journal of East Asian Studies*. Professor Ngo's most recent research project analyzes the impacts of artificial intelligence, robotics and the Internet of things on the future of work in the US and in developing countries.

Jin Y. Park is Professor of Philosophy and Religion and Founding Director of Asian Studies Program at American University. Park specializes in East Asian Buddhism, Buddhist ethics, Buddhist-postmodern comparative philosophy, and modern East Asian philosophy. Park employs Buddhist tradition to engage with contemporary issues with a special focus on gender, justice, and ethics. Park's research on modern East Asian Buddhist philosophy focuses on the role of power in the construction of philosophy in modern East Asia. She earned her Ph. D. at the State University of New York at Stony Brook. Her books include *Women and Buddhist Philosophy* (2017); *Reflections of a Zen Buddhist Nun* (2014); *Makers of Modern Korean Buddhism* (2010); *Buddhism and Postmodernity* (2008), *Buddhisms and Deconstructions* (2006). Park currently serves as President of the Society for Asian and Comparative Philosophy and President of the North American Korean Philosophy Association.

Emilie Parry. For the past 25 years, Emilie Parry has been working in the field of conflict transformation, conflict and transitioning societies, humanitarian and complex emergencies, civilian/child protection, sustainable development (shallow ecology), deep ecology, disaster risk management, and climate change resilience--in Asia, the Americas, Africa, and Eastern Europe. She currently is completing her degree at the University of Oxford Centre for the Environment, School of Geography & the Environment, seated within the Environmental Change Institute. Emilie's participatory, ethnographic research is based on interfaith and indigenous local-to-local climate change and ecology networks, bioculturally and geographically endogenous in their initiatives, yet effectively collaborative across Asia. She is particularly interested in Buddhism, interfaith climate action, and ways in which a range of syncretised local biocultures may perceive and engage with major local and global stressors within the Anthropocene. This interest is driven, in part, in the seeking out of examples and lessons for what can be appropriate, effective, holistic and sustainable in climate solutions, particularly for the planets' most vulnerable groups and species.

Mika Shimizu is Associate Professor in Kyoto University from 2015, and was Assistant Professor in Kyoto University, Disaster Prevention Research Institute through 2013-2015. She has been a visiting researcher in East-West Center in the United States since 2008. Previously she served as a policy researcher at the Nomura Research Institute, America and as a special assistant at the Japanese Embassy in Washington DC. She holds an MA from American University and a Ph.D. in International Public Policy from Osaka University (2006). She also gives lectures at Sophia University and Keio University, and has been extensively involved in policy research projects related to global risks, resilience and governance. Her recent publication, *Nexus of Resilience and Public Policy in a Modern Risk Society* (Mika Shimizu and Allen Clark, Springer, 2019) addresses AI from resilience and public policy points view in Chapter 8 “Advanced Technologies in a Modern Risk Society: Role of Resilience-Based Approaches and Public Policy.”

Leslie Paul Thiele received his BA from McGill University, his MA from the University of Calgary, and his Ph.D. from Princeton University. He is a Distinguished Professor in the Department of Political Science at the University of Florida, where he serves as Director of both the [Sustainability Studies](#) program and the Center for Adaptive Innovation, Resilience, Ethics and Science ([UF CAIRES](#)). His central concerns are the responsibilities of citizenship and the opportunities for leadership in a world of rapid technological, social, and ecological change. Dr. Thiele’s has published scores of journal articles, and nine books, the latest being *The Art and Craft of Political Theory* (Routledge 2019). His current book project is tentatively entitled, *Leaving Nature: Saving Humanity and other Endangered Species*. It grapples with the challenge of sustaining core ecological and human values and relationships in an environmentally precarious and technologically saturated world.

Dr. Keren Tsuk is the Founder and CEO of Wisdom To Lead, consulting company which specializes in the development of senior management teams and leadership. Her Ph.D. is on leadership in 21st century organizations. With over 18 years of experience in guiding global organizations through change and growth processes, Dr. Keren Tsuk specializes in helping companies and senior management teams reach their full potential using mindfulness techniques. Keren has developed a Mindfulness Based Leadership (MBL) course for organizations worldwide. She is a keynote speaker, who speaks at conferences worldwide about mindfulness and leadership. Dr. Keren Tsuk teaches at IDC Herzliya and Lahav Executive Education at Tel Aviv University in Israel, and taught in the Executive Master in Innovation Leadership (EMIL) program at the Hong Kong Polytechnic University in HK.

Andre Uhl is a PhD candidate and research member at the Harvard-MIT Ethics and Governance of AI Initiative, as well as co-founder of the Council on Extended Intelligence (CXI), a project to develop a new narrative for autonomous and intelligent systems based on principles of participatory design. Andre’s research explores questions of epistemic justice in relation to the global governance of Artificial Intelligence. He is a fellow at the MIT Dalai Lama Center for Ethics and Transformative Values, a member of the Religions and the Practice of Peace (RPP) leadership network at Harvard Divinity School, and co-chair of the Sustainable Peace Working Group, an initiative to integrate cross-cultural and spiritual formation into leadership preparation at Harvard University. In the academic year 2019-20, he will incubate an interfaith AI ethics council at Harvard’s Center for the Study of World Religions in collaboration with the IEEE Standards Association.

Pia-Marie “Peachie” Dioquino Valera is a creative, resilient, and determined individual who upholds integrity and virtue in her work credo. She manages stress well and has the aptitude to be professional at all times. She is a keen and fast learner, believes in the fulfilling power of noble work, and aims to attain the highest level of her potential. A people-person who is very well adaptable to different kinds of people and working environments, she has earned degrees in Humanities and Liberal Arts from the University of the Asia and Pacific. She is the Philippines Climate Reality Leader in the Climate Reality Project and Futures Learning Advisor for the Center for Engaged Foresight.

Dongping Zheng is an associate professor in the Department of Second Language Studies at the University of Hawaii, Manoa. She studies languaging process in technology-supported environments. She researches the affordances of virtual worlds, video games and mobile devices for 5E cognition, cross-cultural communication and education. She is also interested in oriental philosophy, namely Confucian role ethics, Daoist/Taoist and Buddhist traditions. Her recent work has been focusing on finding common ground between these correlative cosmological perspectives and Cartesian reductionist approaches to build a culturally balanced research and education model. Her current project is in collaboration with VISLAB at Chinese Academy of Forestry creating a wild panda reserve virtual reality. Taking into consideration of harmonious unity of Heaven and Humanity and mindfulness leveraging VR and AI features, the virtual reserve may play a key role, along with artifacts in the larger ecosystem, to cultivate environmental awareness and new languaging habits.