



Agriculture, Nutrition, Health Scientific Symposium & Academy Week

*July 9-13, 2017
Kathmandu, Nepal*

PROGRAMME

**LEARNING LAB DAY 1,
Sunday, 9 July 2017**

08.30 – 9.00	Registration				
09.00 – 9.30	Welcome				
9.30 – 10.30	Plenary discussion Interdisciplinary journeys: Perspectives from Early Career Researchers				
10.30 – 11.00	Coffee break				
11.00 – 12.30	Parallel Learning Series 1 (Part A):				
	Introduction to Economics For Agri-Health Researchers <i>Tufts University & Purdue University</i>	Women's Empowerment in Agriculture Index (WEAI) <i>A4NH</i>	Sustainable Diets <i>LSHTM & ANH Academy</i>	Biological mechanisms linking agriculture to nutrition <i>Tufts University & USAID Bureau of Food Security</i>	Qualitative methods in nutrition and food systems research <i>LCIRAH</i>
Room	Regal 2	Dynasty	Crystal	Regency	Regal 1
12.30 – 13.30	Lunch				
13.30 – 15.00	Parallel Learning Series 1 (Part B):				
	Introduction to Economics For Agri-Health Researchers <i>Tufts University & Purdue University</i>	Women's Empowerment in Agriculture Index (WEAI) <i>A4NH</i>	Sustainable Diets <i>LSHTM & ANH Academy</i>	Biological mechanisms linking agriculture to nutrition <i>Tufts University & USAID Bureau of Food Security</i>	Qualitative methods in nutrition and food systems research <i>LCIRAH</i>
Room	Regal 2	Dynasty	Crystal	Regency	Regal 1
15.00 – 15.20	Coffee break				
15.20 – 16.20	1 hour Lightning Sessions				
	Open data for agriculture and nutrition <i>GODAN</i>	Research uptake – what is it, why bother and are you good at it? <i>LANSA/IMMANA</i>	Nutrition-sensitive food systems: options for interventions <i>FAO</i>	Analysis framework for social determinants and their influence on food intake by women <i>TU, Institute of Medicine</i>	Animal Source Food: Updates and Evidence <i>ILRI, LSHTM, Uni of Sydney, Land O'Lakes</i>
Room	Dynasty	Regal 1	Regal 2	Regency	Crystal
16.20 – 16.30	Room changes				
16.30 – 17.30	1 hour Lightning Sessions - Repeats				
	Open data for agriculture and nutrition <i>GODAN</i> <i>REPEAT SESSION</i>	Research uptake – what is it, why bother and are you good at it? <i>LANSA/IMMANA</i> <i>REPEAT SESSION</i>	Nutrition-sensitive food systems: options for interventions <i>FAO</i> <i>REPEAT SESSION</i>	Analysis framework for social determinants and their influence on food intake by women <i>TU, Institute of Medicine</i> <i>REPEAT SESSION</i>	Animal Source Food: Updates and Evidence <i>ILRI, LSHTM, Uni of Sydney, Land O'Lakes</i> <i>REPEAT SESSION</i>
Room	Dynasty	Regal 1	Regal 2	Regency	Crystal
17.30	Reception and networking (sponsored by LANSA)				

**LEARNING LAB DAY 2,
Monday, 10 July 2017**

08.30 – 09.00	Arrive and sign in					
9.00 – 10.00	Plenary discussion Getting published 101					
10.00 – 10.30	Coffee break					
10.30 – 12.00	Parallel Learning Series 2 (Part A):					
	Value chains for nutrition IFPRI & LANSA	Diet Dimensions policy game ANH Academy	Indicators of Affordability of Nutritious Diets IANDA	Data dive – mobile for nutrition WFP, ICRAF	Indicators of malnutrition and food insecurity Tufts University	
Room	Regal 1	Regency	Dynasty	Crystal	Regal 2	
12.00 – 13.30	Lunch and networking activity					
13.30 - 15.00	Parallel Learning Series 2 (Part B):					
	Value chains for nutrition IFPRI & LANSA	Diet Dimensions policy game ANH Academy	Indicators of Affordability of Nutritious Diets IANDA	Data dive – mobile for nutrition WFP, ICRAF	Indicators of malnutrition and food insecurity Tufts University	
Room	Regal 1	Regency	Dynasty	Crystal	Regal 2	
15.00 – 15.30	Coffee break					
15.30 – 16.30	Plenary session: Innovative Methods and Metrics for Agriculture & Nutrition (IMMANA)					
	Reflections on IMMANA Grants <ul style="list-style-type: none"> • Suneetha Kadiyala, London School of Hygiene & Tropical Medicine • Christine Lamanna, World Agroforestry Center • Eike Luedeling, World Agroforestry Center Reflections on IMMANA Postdoctoral Fellowships <ul style="list-style-type: none"> • William A. Masters, Friedman School of Nutrition Science and Policy, Tufts University 					
16.30 – 17.30	Thematic breakout discussions					
	Intra-household resource allocation	Innovative large-scale survey methods	Models/modelling for nutrition-sensitive agriculture	Capturing prices, markets and value chains	Working with user-generated data/ ICTs	IMMANA Fellowships Round 4
Room	Regency	Crystal	Regal 1	Dynasty	Regal 2	Dynasty Annex
17.30 – 19.00	Agriculture to Nutrition (ATONU) - results of baseline studies for Ethiopia and Tanzania (optional, open to all)					
19.00 -	IMMANA Grantees, Fellows & staff – (internal)					

**SCIENTIFIC SYMPOSIUM DAY 1,
Tuesday, 11 July 2017**

8.30 – 9.00	Registration
9.00 – 9.10	Welcome Address Opening Remarks from the Feed the Future Nutrition Innovation Lab Dr. Andrew Thorne- Lyman , [Associate Scientist], [JHU/ Nutrition Innovation Lab]
9.10 – 9.30	A Welcome and Update from the ANH Academy Dr. Suneetha Kadiyala , [Associate Professor], [LSHTM/ ANH Academy]
9.30 – 9.40	Opening Address Ms. Carrie A. Rasmussen , [Director of Health], [USAID Mission- Nepal]
9:40 – 9.50	Opening Remarks from Chief Guest Honourable Dr. Geeta Bhakta Joshi , Inaugural Session Chair, [Member], [National Planning Commission]
9.50- 10.00	An Integrated Approach to Addressing Micronutrient Deficiencies: Policy Options for a Way Forward Moderator: Dr. Keith West Dr. Bikash Lamichhane , [Director, Child Health Division]: NNMNSS 2016: Progress on micronutrient deficiencies in Nepal
10.00 - 10.10	Dr. Keith West , [Professor, Johns Hopkins Bloomberg School of Public Health]: Vitamin A interventions to reduce child mortality, blindness and hearing loss in Nepal
10.10 - 10.20	Mr. Naveen Paudel , [Nutrition Officer, UNICEF]: Iodization of salt: Keeping iodine deficiency disorders in check for two decades
10.20 – 10.30	Dr. Ramesh Adhikari , [Professor, Kathmandu Medical College]: National dietary intake patterns of children and women in Nepal: Multiple Year Findings
10.30 – 10.45	Panel Comments from Dr. Rajendra Pant [Director General, Department of Health Services], Dr. Madhu Devkota [Professor, IOM], Dr. Matina Joshi Baidya [Deputy DG, Department of Food Technology and Quality Control]
10.45-11.15	Open Discussion
11.15 – 11.45	Coffee/tea break
11.45 – 12.30	Session 1: Dietary Transitions Chair: Atmaram Pandey, Former Secretary, Government of Nepal <ul style="list-style-type: none"> • Anna Herforth, [Columbia University], [USA]: <i>Indicators of Affordability of Nutritious Diets in Africa: Food prices that reflect nutritious food</i> • Johanna T Wong, [University of Sydney], [Australia]: <i>Factors influencing consumption of animal-source foods in Timor-Leste</i> • Jody Harris, [Institute of Development Studies], [UK]: <i>Nutrition transition in Zambia: Changing food supply, prices, household consumption, and nutrition outcomes</i>
12:30 – 13:05	Mini Poster Presentations
13.05 – 14.00	Lunch

14.00 – 15.00	Session 2: Food Policy and Price Chair: Paula Dominguez-Salas, LSHTM <ul style="list-style-type: none"> • Vijaylaxmi Pandey, [Indira Gandhi Institute of Development Research], [India]: <i>Responsiveness of rural households to pulse price rise: A qualitative study</i> • Derek Headey, [IFPRI], [USA]: <i>The relative price of healthy and unhealthy foods in 176 countries: Implications for food and nutrition policies</i> • Brian Chisanga, [IAPRI], [Zambia]: <i>The Changing Food Expenditure Patterns and Trends in Zambia: Implications on Agricultural Policies</i>
15.00 – 15.30	Coffee/tea break
15.30 – 16.15	Poster viewing
16.15 – 17.30	Session 3: Policy, Food Supply and Food Production Chair: Jeff Waage, LSHTM <ul style="list-style-type: none"> • Samira Choudhury, [University of Adelaide], [Australia]: <i>What Drives Diversification of National Food Supplies? A Cross-Country Analysis</i> • Rudra Badahur Shrestha, [Ministry of Agricultural Development], [Nepal]: <i>Efficiency of small scale vegetable farms: policy implications for rural poverty reduction and nutrition security in Nepal</i> • Soledad Cuevas, [LSHTM], [UK]: <i>Improving health and sustainability outcomes in the edible oil sector in India: A qualitative policy analysis</i> • Bhavani Shankar, [SOAS], [UK]: <i>Food Policy and Health Outcomes: A Mixed-Methods Investigation of Health-Sensitive Palm Oil Policy in Thailand</i> • Samuel Awoniyi, [Joseph Ayo Babalola University], [Nigeria]: <i>Food Self-Sustainability Drive and Malaria Spread in Rural Nigeria: A Need for Policy Coherence?</i>
17.30 - 17.50	Keynote Speech Namukolo Covic, [International Food Policy Research Institute]
18.00 – 19.30	Reception and networking <i>Sponsored by Wellcome Trust</i>

**SCIENTIFIC SYMPOSIUM DAY 2,
Wednesday, 12 July 2017**

09.00 – 10.30	Session 4: Climate, Seasonality and Environmental change Chair: Stuart Gillespie, IFPRI <ul style="list-style-type: none"> • Swetha Manohar, [JHSPH], [USA]: <i>Seasonality of consumption of non-staple micronutrient-rich foods among young children in three geographically diverse Nepali communities</i> • Gerald Shively, [Purdue University], [USA]: <i>Assessing the rainfall-agriculture and rainfall-health nutrition pathways in Uganda</i> • Edward Joy, [LSHTM], [UK]: <i>Realistic and healthy dietary changes to address freshwater constraints in India: a modelling study</i> • Upasona Ghosh, [Institute of Health Management Research], [India]: <i>Pathways of child food insecurity amidst climate change A Case Study of Indian Sundarbans</i> • Nick Chisolm, [University College Cork], [Ireland]: <i>Seasonal variations in household food security and dietary diversity and associations with maternal and child nutritional status in rural Ethiopia</i> • Rojee Suwal, [Helen Keller International], [Nepal]: <i>Household Food Production and Maternal and Child Dietary Diversity in Nepal: Variations in association by season and agro-ecological zone</i>
10.30 – 10.50	Coffee/ tea break
10.50 – 11.50	Evidence from the Feed the Future Nutrition Innovation Lab Chair: Patrick Webb, Tufts University

	<ul style="list-style-type: none"> • Prajula Mulmi, [Tufts University], [Nepal]: <i>Household food production is associated with dietary diversity for poorer households and older children: Results from a nationally- representative survey in Nepal</i> • Andrew Thorne- Lyman, [JHSPH], [USA]: <i>Nutritional resilience following the 2015 earthquake in Nepal</i> • Ram Chandyo, [Kathmandu Medical College], [Nepal]: <i>Engagement in agriculture protects against food insecurity and adverse child nutritional outcomes in a peri-urban population in Nepal</i> • Johanna Andrews Trevino & Shibani Ghosh, [Tufts University], [USA]: <i>Diet and seasonality as determinants of aflatoxin exposure in pregnant women and birth weights in Banke, Nepal; preliminary results from a birth cohort study</i>
11.50 – 12.25	Mini Poster Presentations
12.25 – 13.15	Poster viewing
13.15 – 14.15	Lunch
14.15 – 15.45	<p>Dialogue on Improving Nutrition Through Recognising, Protecting and Promoting the Rights and Wellbeing of Women Agricultural Workers in South Asian countries (coordinated by LANSA)</p> <p>Chair: Rachel Lambert, Senior Livelihoods Adviser, Agricultural Research, DfID, UK</p> <p>Presentation on Emerging Evidence from LANSA Research: Nitya Rao, Professor of Gender & Development, University of East Anglia and LANSA Gender Cross-cut Lead</p> <p>Panellists: Nafisa Shah, Member, National Assembly of Pakistan</p> <p>Jatinder Kishtwaria, Director, ICAR-Central Institute for Women in Agriculture, Government of India</p> <p>Khushi Kabir, Coordinator, Nijera Kori, Bangladesh</p> <p>Indira Dahal, Joint Secretary, Nepal Law Commission</p>
15.45 – 16.15	Coffee/Tea break
16.15 – 17.30	<p>Session 5: Household Food Production & Nutrition Linkages Chair: Y.N. Ghimire, NARC</p> <ul style="list-style-type: none"> • Ramya Ambikapathi, [Harvard University], [USA]: <i>Agriculture to Nutrition-ATONU: Market availability modifies home production diversity's effects on dietary diversity among women in Ethiopia</i> • Devendra Gauchan, [Bioversity International], [Nepal]: <i>Exploring linkages of production diversity with household nutrition and management of crop biodiversity in the rural remote mountains of Nepal</i> • Bill Pritchard, [University of Sydney], [Australia]: <i>Is household production of food for own-consumption purposes a predictor of food security and dietary diversity? Household survey results from rural Myanmar</i> • Abu Hayat Md. Saiful Islam, [Bangladesh Agricultural University], [Bangladesh]: <i>Farm Diversification and Food and Nutrition Security in Bangladesh: Empirical Evidence from a Nationally Representative Household Panel Data</i>

17.30 – 17.50	Keynote Speech Tahmeed Ahmed, [BRAC University]
18.00	Group photo
18.20 18.45 – 20.45	<i>Leave to off-site networking/cultural venue</i> Off-site networking event

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SCIENTIFIC SYMPOSIUM DAY 3, Thursday, 13 July 2017	
09.00 – 09.50	<p>Session 6: Novel Metrics to Study Agriculture-Nutrition Pathways: Evidence from Observational Studies Chair: Joyce Kinabo, Sokoine University of Agriculture</p> <ul style="list-style-type: none"> • Andrew Jones, [University of Michigan], [USA]: <i>A methodological cluster-randomized controlled trial in Burkina Faso to assess bias in estimates of key agriculture-nutrition associations using household survey data</i> • Ankita Mondal, [National Institute of Nutrition], [India]: <i>Can locally available foods fulfil the requirements of major essential nutrients of a typical household in Rohtas, Bihar? A Cost of Diet Assessment</i> • Giacomo Zanello, [University of Reading], [UK]: <i>Piloting the use of accelerometry devices to capture energy expenditure in agricultural and rural livelihoods: Protocols and findings from Ghana and India</i>
09.50 – 10.20	Coffee/Tea break
10.20 – 11.20	<p>Session 7: Gender and Equity Chair: Binjwala Shrestha, IOM</p> <ul style="list-style-type: none"> • Haris Gazdar, [LANSA], [Pakistan]: <i>The relationship between crop-related agricultural workload and maternal and infant nutritional status in rural Pakistan: the LANSA project.</i> • Erin Lentz, [UT- Austin], [USA]: <i>Qualitative findings on the Women's Empowerment in Nutrition Index</i> • Poshan Dahal, [Tufts University], [Nepal]: <i>Effect of male out-migration on household food security: Evidence from a mixed methods study in Far West Nepal</i> • Helen Harris- Fry, [LSHTM], [UK]: <i>Food security does not lead to equity: a study on intra-household food allocation in rural Nepal.</i>
11.20 - 12.20	<p>Session 8: Program Evaluations I Heather Danton, SPRING</p> <ul style="list-style-type: none"> • Berber Kramer, [IFPRI], [USA]: <i>Cooking Contests for Healthier Recipes: Impacts on Nutrition Knowledge and Behaviours in Bangladesh</i> • Purushottam Khatiwada, [LiBIRD], [Nepal]: <i>Home Garden Approach for Enhancing Nutritional Security of Smallholder Farming Families in Nepal</i> • Jayesh Joshi, [VAAGDHARA], [India]: <i>Participatory Learning and Action for Nutrition Sensitive Farming System among Tribal families.</i> • Laurie Miller, [Tufts University], [France]: <i>Greater improvements in child growth and diet quality after a holistic community development intervention than after nutrition training alone</i>
12.20 – 13.20	Lunch

13.20 – 14.30	<p>Session 8 contd.: Program Evaluations II Chair: Bikash Lamichhane, Child Health Division, Department of Health Services</p> <ul style="list-style-type: none"> • Sirawdink Fikreyesus Forsido, [University of Kassel], [Ethiopia]: Mainstreaming participation: Maternal and Child Nutrition Stakeholders in Southwest Ethiopia • Paul Christian, [World Bank], [USA]: <i>The Contribution of AFSP Farmers Groups Toward Improved Agricultural Income and Nutrition: Midline results from the DIME Impact Evaluation of AFSP</i> • Akina Shrestha, [University of Basel], [Nepal]: <i>Health and nutritional status of schoolchildren one year after complementary school garden, nutrition and WASH interventions: a cluster randomised controlled trial in Nepal</i> • Stella Wambugu, [SOAS], [Kenya]: <i>Farmers' health and agriculture in low income economies: investigating farm households and wider health interactions in rural Malawi</i> • Sabine Gabrysch, [Heidelberg University], [Germany]: <i>Lessons from implementation and process monitoring of the Food and Agricultural Approaches to reducing Malnutrition (FAARM) trial in Bangladesh</i>
14.30 – 15.00	Coffee/Tea break
15.00 – 15.20	<p>Keynote Speech Patrick Webb: <i>Global Panel Foresight Report</i></p>
15.20 – 15.40	<p>Donor Address Rachel Lambert, [Senior Livelihoods Adviser, Agriculture Research], [UK Aid/Department for International Development]</p>
15.40 – 16.30	<p>Symposium summary and closure Coffee and departure</p>

End

LEARNING LABS, DAY 1: SUNDAY 9 JULY
PLENARY SESSION

Title	Interdisciplinary Journeys
Name of the organisation	Various
Name of facilitator(s)	<p>Moderator: Swetha Manohar, Nutrition Innovation Lab Investigator & PhD candidate, Johns Hopkins University</p> <p>Panel: Santosh Gaihre, PhD Candidate, University of Aberdeen</p> <p>Semira Beyan, IMMANA Fellow & Lecturer, Hawassa University</p> <p>Ramya Ambikapathi, Research Fellow, Harvard T.H. Chan School of Public Health</p> <p>Ariyo Oluwaseun, Lecturer, University of Ibadan</p>
Brief overview of session	<p>What does it mean to work across disciplines? Why is this particularly important for agri-health research? What are the associated benefits and challenges, especially for doctoral students and early career researchers</p> <p>The Learning Labs programme will open with a plenary session that aims to shed light on these critical questions and ask the panellists to reflect upon their experiences in working across disciplines.</p> <p>The session will feature four early-career researchers who will talk briefly about their journeys to date; how different experiences and contexts have shaped their research and share thoughts on how one could be better prepared for undertaking interdisciplinary work.</p>
Learning objectives/outcomes	<p>Through this discussion participants will be stimulated to think critically about how interdisciplinary and inter-sectoral working can enrich their research, what types of challenges and opportunities they might encounter and how they can be better prepared to tackle these.</p> <p>The session will help participants to evaluate and plan their own interdisciplinary paths and the conversation can continue after the session through an online ANH Academy forum, which will provide space for participants to discuss their experiences and plans that lie ahead.</p> <p>It is hoped that this dialogue will further the sharing of experiences amongst early career researchers and provide food for thought to their mentors on the gaps, needs and learning opportunities for researchers making interdisciplinary journeys.</p>
Target audience	All researchers and research users working in agriculture, nutrition or health.
Format	Plenary interactive panel discussion
Session duration	1 hour
Level	Any

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LEARNING LABS, DAY 1: SUNDAY 9 JULY
PARALLEL LEARNING SESSIONS

Title	Introduction to Economics for Agri-Health Researchers
Name of the organisation	Tufts University & Purdue University
Name of facilitator(s)	William Masters (Tufts) and Gerald Shively (Purdue)
Brief overview of session	This Learning Lab will introduce advanced researchers in health, agricultural and veterinary sciences to the analytical methods used by economists to explain and predict behaviour related to food production and markets, and their implications for dietary intake. The causal framework used in economics begins with individual behaviours and their interactions to generate observed outcomes at the level of each household, community and country. This Learning Lab will introduce and explain this conceptual framework and provide examples of its empirical application to agriculture and nutrition in Nepal and elsewhere.
Learning objectives/outcomes	<p>Participants will be able to:</p> <ul style="list-style-type: none"> -- Analyse farm household production choices and dietary intake as the result of individual decision-making, using the framework of production possibilities, indifference curves and relative price lines; -- Analyse household, community and national-level outcomes as the result of social interaction, using the framework of supply, demand and trade with other households, communities or countries; -- Apply these two causal frameworks to practical examples using survey data for individual behaviour, and national data for country-level supply and demand.
Target audience	Doctoral-level researchers with advanced training in the health and veterinary sciences or agriculture, but little or no exposure to economics research methods.
Format	Lecture and discussion
Session duration	3 hrs
Level	Basic -- Participants are encouraged to read this beforehand: http://www.karger.com/Article/Pdf/452378 .
Materials or equipment required for session (i.e. flip chart, post it notes)	Computer projector for PPT slides

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Title	Using the Women’s Empowerment in Agriculture Index (WEAI) for Nutrition-Sensitive Programming
Name of organisation	IFPRI
Name of facilitator(s)	Hazel Malapit; Co-Trainer (TBC)
Brief overview of session	This course will provide an introduction to the WEAI, the first comprehensive and standardized measure to directly measure women’s empowerment and inclusion in the agricultural sector. The course will cover the conceptual underpinnings of the WEAI, its domains and component indicators, and the ongoing development of a nutrition-sensitive WEAI for use in agricultural development projects under Phase 2 of the Gender, Agriculture and Assets Project (GAAP2) . Special emphasis will be placed on best practices around survey design and implementation, and its relevance as a tool for measuring and tracking both the intended and unintended impacts of nutrition-sensitive agricultural programs on women’s empowerment.
Learning objectives/outcomes	At the end of this course, the participant will be able to: <ol style="list-style-type: none"> 1. Understand how and why gender considerations and women’s empowerment matter for nutrition-sensitive agricultural programs 2. Understand how the WEAI can be used to diagnose areas of disempowerment, and monitor intended and unintended impacts of agricultural development programs on women’s empowerment 3. Understand how the WEAI data is collected, and be familiar with best practices on survey implementation
Target audience	The course is appropriate for participants with some background and/or strong interest in gender issues in ANH programs.
Format	Parallel Learning Session
Session duration	3 hours
Level	Basic

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Title	Sustainable diets
Name of the organisation	LSHTM
Name of facilitator(s)	Edward Joy
Brief overview of session	<p>Agriculture and food production have major implications for the environment, for example causing 30% of anthropogenic greenhouse gas emissions and 70% of fresh water use globally.</p> <p>This session will take a food systems perspective and examine the role that ‘sustainable diets’ could play in benefitting human health and planetary health, i.e. the natural systems on which we depend.</p> <p>The workshop will guide participants through the standard methods of quantifying the environmental impacts of diets, using worked examples and group tasks.</p>
Learning objectives/outcomes	<ul style="list-style-type: none"> • Demonstrate the role of sustainable diets in promoting human and planetary health • Apply standard methods to quantify the environmental impacts of diets
Target audience	Nutrition community
Format	1.5 hours interactive lecture and session 1.5 hours group work
Session duration	3 hours
Level	Basic
Materials or equipment required for session	Flip chart, post-it notes, marker pens

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Title	Biological mechanisms linking agriculture to nutrition: Role of food safety in achieving optimal health and wellbeing in developing countries
Name of the organisation	Tufts University (Feed the Future Innovation Lab for Nutrition) and USAID Bureau of Food Security
Name of facilitator(s)	Shibani Ghosh, Johanna Andrews Trevino, Ahmed Kablan, Patrick Webb
Brief overview of session	Within the context of the SDGs, food based approaches are an important programmatic strategy in improving nutrition and reducing mortality. Conversely, food-borne diseases account for 33 million DALYs and 420,000 deaths. Poor food safety reduces agricultural output, affects prices and trade in a global market. It is imperative to understand the interactions between food safety, agriculture and nutrition. Participants will be introduced to concepts of food safety linking agriculture to nutrition via a health lens. Topics such as water, hygiene and sanitation, environmental enteric dysfunction, aflatoxins and other mycotoxins and their link to poor nutrition and poor human and economic development will be discussed.
Learning objectives/outcomes	Participants will learn about: <ol style="list-style-type: none"> 1. Emerging issues within the realm of food safety and nutrition 2. Understand the potential role of contamination in impeding progress towards achieving sustainable goals around nutrition
Target audience	Researchers, technical specialists in programming, students that are interested in understanding the link between agriculture-nutrition via health and food safety
Format	Interactive- lecture followed by discussion and case studies
Session duration	3 hours
Level	Basic, participants are encouraged to read following document beforehand: http://glopan.org/sites/default/files/GP-Food-Safety-Brief.pdf

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Title	Qualitative methods in nutrition and food systems research
Name of the organisation	IFSTAL / LCIRAH
Name of facilitator(s)	Elizabeth Hull, Lauren Blake, Jody Harris
Brief overview of session	Part 1: An introduction to qualitative social research, its main methods, and what it can offer in tackling agriculture, nutrition and health challenges. Part 2: Using case studies, groups work on integrating qualitative methods into research designs addressing a problem within (mal)nutrition. Part 3: Discussion and wrap up.
Learning objectives/outcomes	<ul style="list-style-type: none"> • Demonstrate basic understanding of qualitative research and its main methods • Demonstrate basic understanding of how and why qualitative research can be useful in agriculture, nutrition and health • Apply qualitative research methods by developing a study design for a case study • Demonstrate ability to apply principles of interdisciplinarity to research
Target audience	Researchers and practitioners seeking to improve their understanding and use of qualitative research and interdisciplinary skills within the realm of agriculture, nutrition and health.
Format	Parallel learning session Talks and small group work
Session duration	3 hours
Level	Basic to Intermediate

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LEARNING LABS, DAY 1: SUNDAY 9 JULY
LIGHTNING SESSIONS (15:20 – 16:20 & 16:30 – 17:30)

Title	Open Data for Research in Agriculture and Nutrition
Name of the organisation	Global Open Data for Agriculture and Nutrition (GODAN)
Name of facilitator(s)	Arun Pratihast
Brief overview of session	<p>The problem of food security could be potentially reduced by the sharing of information, data, and knowledge about food, agriculture and nutrition amongst stakeholders. An astonishingly large amount of information is generated through academic research but most of this valuable information is locked away in PDFs or behind paywalls. A number of donors of agricultural research recognize that open data management plans may be essential in the future of research and may integrate clear open data principles into their funding policies. Come learn about open data management plans in agriculture and nutrition!</p> <p>This session is led by the Global Open Data for Agriculture and Nutrition (GODAN) Initiative. GODAN supports the proactive sharing of open data to make information about agriculture and nutrition available, accessible and usable to deal with the urgent challenge of ensuring world food security.</p>
Learning objectives/outcomes	<p>In this session participants will:</p> <ul style="list-style-type: none"> • Be introduced to GODAN and open data • Understand the importance of open data in research • Explore common open data policies and principles • Breakout and plan their own open data management plans • Present plans by group and discuss
Target audience	All researchers and users of research
Format	Lightning session
Session duration	1 hour
Level	Any

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Title	Research uptake – what is it, why bother and are you good at it?
Name of the organisation	Innovative Methods and Metrics in Agriculture for Nutrition Actions (IMMANA) & Leveraging Agriculture for Nutrition in South Asia (LANSA)
Name of facilitator(s)	Anna Marry, Research Uptake Manager, IMMANA Sangeetha Rajeesh, Research Uptake Manager & Communication Specialist, LANSA
Brief overview of session	This session will provide an introduction to research uptake: definitions, approaches, tools and techniques. Participants will hear from research uptake specialists from two major international programmes, LANSA and IMMANA, and will be encouraged to share their own examples. Attendees will be introduced to the LANSA self-assessment tool, which will allow them to assess their organisation's or team's research uptake capacity.
Learning objectives/outcomes	By the end of the session the participants will: <ul style="list-style-type: none"> • Be able to define research uptake and possible approaches to it • Be able to identify selected tools and techniques in research uptake • Understand the purpose and uses of the LANSA self-assessment tool • Begin to reflect on their (and their organisation's) strengths and opportunities in research uptake • Know where to look for further information and resources on research uptake.
Target audience	Researchers at all levels (primary audience); research uptake and communications staff; users of research in policy and programming
Format	This session will be a mixture of presentations and group discussion.
Session duration	1 hour
Level	Basic (those with experience in research uptake will benefit as well - they will be able to share their own experience and learn about a new research uptake tool)

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Title	Nutrition-sensitive food systems: from concepts to practice. Introducing the FAO toolkit and e-learning modules for Nutrition-sensitive agriculture and food systems
Name of the organisation	FAO
Name of facilitator(s)	Domitille Kauffmann
Brief overview of session	In the context of the SDGs and UN Decade of Action for Nutrition, governments and development partners are increasing their commitment to make agriculture and food system policies and programmes “nutrition-sensitive”. A prominent challenge for transforming this commitment into action is the limited capacity to design, implement and monitor nutrition-sensitive food and agriculture policies and programmes. FAO has been working to address these capacity gaps at country and regional levels and capitalized on these experiences in consultation with many partners to develop a Toolkit and e-learning modules for policy and programme planners on Nutrition-sensitive Agriculture and Food Systems. These resources will be introduced through a fun and interactive session.
Learning objectives/outcomes	At the end of the sessions participants will: <ul style="list-style-type: none"> • Be familiar with basic concepts for promoting nutrition-sensitive agriculture and food systems (including food systems, food environments, and key principles of a nutrition-sensitive approach) • Be familiar with the tools (guidelines, e-learning) produced by FAO for designing, monitoring and evaluating nutrition-sensitive food and agriculture policies and programmes • Know where and how to access these tools
Target audience	Development professionals, researchers, policy and programme planners/implementers, students interested in nutrition-sensitive agriculture and food systems
Format	Interactive, scenario-based presentation and discussion
Session duration	1 hour
Level	Basic – all participants can attend

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Title	Analysis framework for social determinants and their influence on food intake by women
Name of the organisation	Tribhuvan University, Institute of Medicine
Name of facilitator(s)	Dr Binjwala Shrestha Dr Archana Amatya
Brief overview of session	This session would review a common framework used for social determinants of food intake by women, explore and identify potential pathways, the proximate determinants, and the indicators. The appropriate approaches to derive the above information would be discussed. Relevant evidences would be shared and discussed for clarity and appropriateness of the framework in different contextual settings. As the participants are from diverse socio-cultural contexts, based on the presented framework, the session would further explore additional dimensions through discussions and sharing of relevant examples. An updated framework would be derived that could be used in further research.
Learning objectives/outcomes	To present the analysis framework for social determinants based on literature review To derive the proximate determinants, indicators and appropriate approaches to gather information and data To discuss the framework in diverse socio cultural contexts
Target audience	All
Format	Brainstorming on sociocultural aspect of food intake and nutritional status. (10 mins) Presentation on session introduction and conceptual framework (20 mins) Discussion with examples (20 mins) Summarization based on examples and case studies (10 mins)
Session duration	One hour session (repeated)
Level	Advanced Previous experience and interest in socio-cultural aspects of food and nutrition.

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Title	Leveraging nutrition with Animal-source foods (ASF) and livestock interventions: updates and evidence
Name of the organisation	International Livestock Research Institute (ILRI), London School of Hygiene and Tropical Medicine (LSHTM), University of Sydney (USyd), Land o'Lakes (LoL)
Name of facilitator(s)	Delia Grace (ILRI), Silvia Alonso (ILRI), Paula Dominguez-Salas (LSHTM/ILRI), Robyn Alders (USyd), Jennifer Lane (LoL), Johanna Wong (Usyd)
Brief overview of session	Animal-source foods are rich in a number of essential nutrients that can contribute to nutritional outcomes particularly in women and children of poor households. Many poorer households keep livestock, and livestock programs can improve nutrition security through several impact pathways, yet nutrition is often not a specific objective, nor are specific activities or measures to assess results included. Different recent initiatives will be presented in sub-sessions by their authors, followed by small group discussion, digging into the evidence available and ongoing projects. The workshop will provide tangible advice to tackle nutrition-sensitive livestock programming.
Learning objectives/outcomes	<ul style="list-style-type: none"> - To review the contribution of animal-source foods to nutrition outcomes. - To understand and evaluate possible trade-offs and synergies between nutritional security and other health and wellbeing goals. - To agree on processes that promote facilitating nutrition outcomes in livestock value chains, and associated interdisciplinary work.
Target audience	Practitioners and researchers interested in nutrition-sensitive agriculture and livestock value chains, maternal and child nutrition; food and nutrition security.
Format	<p>World Café sessions (3 sessions of 20 min each). Sessions with brief introduction, followed by Q&A and a facilitated discussion:</p> <ul style="list-style-type: none"> - <u>Family poultry, gender and food and nutrition security</u>: overview and discussion of designs re: 1) an ACIAR-funded (5-year, interdisciplinary, cluster randomised controlled trial) project with a focus on strengthening food and nutrition security through assets under the control of women (including family poultry) in Sub-Saharan Africa; a 2-year project exploring linkages between family poultry and infant nutrition in Timor-Leste. - <u>Household decision making with livestock</u>: an interactive exercise drawn from field experience in Malawi and guiding questions to consider when designing nutrition-sensitive livestock interventions. - <u>New documents on ASF, livestock and nutrition</u>: 1) Chatham House report on the importance of ASF in the first 1,000 days (summary of the findings of the first systematic literature review); and 2) FAO Technical guidance to design nutrition-sensitive livestock programs (summary of the key recommendations).
Session duration	1 hour
Level	BASIC- no knowledge pre-requisites, just an interest on the role that livestock and animal-source foods can play in sustainable household nutrition

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Title	ATONU Side Event Session, 1740-1900h, 9 July 2017, Kathmandu, Nepal Agriculture to Nutrition (ATONU): Improving Nutrition Outcomes through Optimized Agriculture Investments Project: Share results of baseline studies for Ethiopia and Tanzania and experiences on implementation of nutrition-sensitive interventions into agricultural development projects
Name of the organisation	Food, Agriculture and Natural Resources Policy Analysis Network (FANRPAN)
Name of facilitator(s)	(i) Dr Simbarashe Sibanda, Dr Tshilidzi Madzivhandila, and Bertha Mkandawire, FANRPAN (ii) Dr Nilupa Gunaratna, Harvard Chan School of Public Health (iii) Prof Joyce Kinabo, Sokoine University of Agriculture
Brief overview of session	ATONU project aims to answer the following questions: (i) What can agriculture projects and programs do to deliver positive nutrition outcomes? (ii) What potential interventions along the agricultural value chain will impact the nutrition status of women and young children? (iii) Under what conditions do increases in agricultural income lead to improved nutritional outcomes? (iv) Which entry points along the agricultural value chain have the greatest potential impact for empowering women and improving children's nutrition? (v) How can agricultural interventions be designed to improve nutritional outcomes within smallholder farm families? ATONU is working with ILRI's African Chicken Genetic Gains (ACGG) project in Ethiopia and Tanzania to answer these questions. To date, ATONU has conducted baseline studies in the two countries and is delivering nutrition-sensitive interventions.
Learning objectives/outcomes	Share and get feedback from agriculture-nutrition practitioners on the following: (i) Overview and update of ATONU project – Dr Simbarashe Sibanda, FANRPAN (ii) Descriptive findings from baseline surveys from Ethiopia – Dr Nilupa Gunaratna, Harvard Chan School of Public Health (iii) Descriptive findings from baseline surveys from Ethiopia and Tanzania – Prof Joyce Kinabo, Sokoine University of Agriculture
Target audience	Research and development practitioners, thought leaders in agriculture-nutrition, policy makers and other agricultural value chain actors.
Session duration	1.5 Hrs
Level	Advanced: Knowledge of agriculture-nutrition and nutrition-sensitive interventions and impact evaluation design.

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**LEARNING LABS, DAY 2 – MONDAY 10 JULY
PLENARY SESSION**

Title	Getting Published
Name of the organisation	Various
Name of facilitator(s)	<p><u>Moderator:</u> Madhu Devkota, Institute of Medicine, Nepal</p> <p><u>Panellists:</u> Food Policy / PLOS: Bhavani Shankar Agricultural Economics: Gerald Shively European Journal of Clinical Nutrition: Prakash Shetty Journal of Nepal Health Research Council: Archana Amatya</p> <p><u>Final feature announcement (5 mins)</u> Food Security: Richard Strange</p>
Brief overview of session	<p>In an academic climate of ‘publish or perish’ – what does it actually take to get your research into print?</p> <p>In this plenary session editors of several journals relevant to agriculture, nutrition and health will share their insights into the world of peer-reviewed publishing, giving useful tips from editorial perspectives and suggestions of how to maximise the chance of having an article accepted.</p>
Learning objectives/outcomes	<p>Participants will be able to:</p> <ul style="list-style-type: none"> Know which types of journals to target with their research Identify transferrable skills for getting published Better evaluate why their work may be rejected Critically assess editorial preferences and understand what makes a paper stand out
Target audience	All researchers
Format	Plenary session
Session duration	One hour
Level	All levels

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LEARNING LABS, DAY 2 – MONDAY 10 JULY
PARALLEL LEARNING SESSIONS

Title	What role for the public and private sector to deliver nutrient-rich foods and improve the diets of vulnerable consumer groups and how?
Name of the organisation	LANSA/IFPRI
Name of facilitator(s)	Mar Maestre and Amy Margolies, IFPRI
Brief overview of session	Malnutrition is a central and persistent challenge for global development. There is increasing interest in engaging the private sector to improve diets, albeit with few successful examples. Challenges which prevent nutritious foods from reaching poorest and most vulnerable cannot be addressed by an individual business or value chain, but rather related to the market system more broadly, and will only be successfully addressed by taking a market systems approach. Over the last years, LANSA and IMMANA VCN project has been researching the role that the private sector can and should have in delivering high-quality nutritious foods to nutritionally vulnerable populations and how to create an appropriate institutional environment that shapes the market to effectively deliver nutritious foods to vulnerable target groups. In this session, participants will engage with real case studies developed by LANSA from South Asia to understand the different pathways through which private sector can deliver nutrient-rich foods and potentially improve diets, the most common challenges faced by private sector organizations, and explore potential solutions.
Learning objectives/outcomes	How can a practitioner assess the key challenges faced by agri food value chains and identify entry points for interventions, both from a consumer and a supply perspective? What are the common challenges and how can successful interventions most effectively address these? Which types of market-based intervention offer the greatest prospects to achieve substantive and sustained consumption of nutrient-dense foods and improve diets of the poor at scale and in what contexts?
Target audience	Policy makers, private sector, practitioners, researchers
Format	Brief presentation on the diagnostics and the results from our work (pathways to deliver nutrition, key challenges faced by business, common solutions) and an overview of a conceptual framework (key questions to consider) (15 minutes) Participants will be broken into groups and use real case studies to work through the framework, nutrition impact pathways and challenges in an applied way illustrating the different agri food chains for private sector interventions - including large scale mandatory fortification, small scale fortification, public-private partnerships, social enterprises (30-40 minutes) After the group work, each team will share the various challenges and opportunities (15 minutes) and we will facilitate a debate (20 minutes)
Session duration	90 min
Level	No prerequisite needed

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Title	Diet dimensions policy game
Name of the organisation	LSHTM
Name of facilitator(s)	Edward Joy
Brief overview of session	Diet dimensions is a live, social game that aims to stimulate discussion, interaction and creative thinking on policies for sustainable food systems. Participants from a wide range of backgrounds and disciplines form teams and collectively develop project ideas to deliver sustainable food systems in various contexts.
Learning objectives/outcomes	<ul style="list-style-type: none"> • Recognise the complex nature of food systems and policy making • Formulate policies for sustainable food systems, understanding potential co-benefits and trade-offs • Critique food system policies
Target audience	Research, policy and practice communities working on food systems
Format	Short introduction to food systems and Diet Dimensions
Session duration	2 x 1.5 hours
Level	Basic

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Title	Indicators of Affordability of Nutritious Diets
Name of the organisation	Tufts University, Friedman School of Nutrition, IMMANA
Name of facilitator(s)	Anna Herforth, Zachary Gersten
Brief overview of session	<p>How can food price information be used for improving nutrition? This is the fundamental question we will tackle in this learning lab, giving participants the tools to source and harness existing food price information in any given country to inform the design of programs, assess food access, or advocate for policies to improve diets. We will use our experience in our two partnering countries (Ghana and Tanzania) as case studies to demonstrate how to source food price data and calculate indicators of the cost of nutritious food. These indicators can be useful for research, policymaking, and program management.</p> <p>This session results from the IMMANA-funded IANDA project (Indicators of Affordability of Nutritious Diets in Africa).</p>
Learning objectives/outcomes	<p>By the end of this session, participants will be able to:</p> <ol style="list-style-type: none"> 1. Describe the basic sources and meaning of existing “food price” indicators and indexes 2. Understand the theoretical basis for the Cost of Dietary Diversity (CoDD), Cost of Nutrient Adequacy (CoNA), and Cost of Recommended Diet (CoRD) indicators and identify potential data sources for these 3. Practice using real food price monitoring data to be able to construct the indicators 4. Interpret the indicators using real data 5. Describe methods and potential for nutrition mainstreaming within national-level data sources and management systems collecting food price data
Target audience	Researchers, practitioners, and policymakers interested using existing data for measuring access to nutritious food. These indicators can be used for monitoring, or in the design and evaluation of nutrition-sensitive agriculture programs and policies.
Format	Presentation, Discussion, and Interactive practice
Session duration	3 hours
Level	Basic

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Title	Measuring food insecurity and malnutrition: Construction and interpretation of standard indicators using existing data
Name of the organisation	Tufts University (IMMANA, INDDX, Nutrition Innovation Lab)
Name of facilitator(s)	William A. Masters, Shibani Ghosh, Winnie Bell
Brief overview of session	This Learning Lab introduces researchers to the many data sources and calculations used by international agencies to measure food insecurity and malnutrition. Our approach begins with the FSIN “User’s Guide” on Measuring Food Security and Nutrition (http://www.fsincop.net/topics/fns-measurement) extended in 2017 for IMMANA with the Nutrition Innovation Lab and the INDDX Project, with targeted guidance on dietary-related food security indicators (http://inddex.nutrition.tufts.edu/guiding-framework/). The first 90 minutes will be for plenary presentation and discussion, followed by breakout groups around each type of indicator, and reporting back with guidance for the most effective use of existing data sources for research and evaluation.
Learning objectives/outcomes	Participants will be able to: -- Identify data sources and calculations behind 37 widely-used indicators of food security and nutrition -Select the most appropriate indicator for policy analysis, program design and management -Prioritize among future investments in data collection and analysis to obtain the most useful kinds of new data
Target audience	Researchers and policy analysts using quantitative indicators from public data sources such as FAO Food Balance Sheets, household consumption surveys and anthropometric measurement.
Format	Lecture and discussion
Session duration	3 hrs
Level	Basic -- Participants are encouraged to read this beforehand: http://www.fsincop.net/topics/fns-measurement and to explore the online “Guiding Framework for Dietary-related Food Security Indicators” at http://inddex.nutrition.tufts.edu/guiding-framework/

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Title	Data dive – mobile for nutrition
Name of the organisation	WFP, ICRAF
Name of facilitator(s)	Kusum Hachhethu (WFP), Arghanoon Farhikhtah (WFP), Christine Lamanna (ICRAF), Mary Ngendo (ICRAF)
Brief overview of session	In this highly interactive session, we will ‘dive’ into the data that we collected by mobile technology in Kenya and Malawi. We will show how data collected from face to face interviews differs from data collected through mobile tools. Participants will be able to take surveys on their own phones (or sample phones provided for) in an interactive demo. The results of the demo will be visualized on a flat screen for interpretation and discussion.
Learning objectives/outcomes	Participants understand the strengths and limitations of using mobile tools (live calls and SMS) to measure nutrition indicators (Minimum Dietary Diversity for Women (MDD-W) and Minimum Acceptable Diet (MAD). Participants experience conducting nutrition surveys by mobile tools. Participants see how collected data can be presented.
Target audience	Practitioners. Researchers. Information system managers. Nutrition policy experts.
Format	<ul style="list-style-type: none"> • Video clip or presentation on Kenya survey [including Q&A] • MDD-W by SMS demo • Visualization of the demo results and interpretation of data • Feedback and discussion
Session duration	3 hrs
Level	Basic session. Knowledge of basic college statistics is assumed.

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Title	Innovative Methods and Metrics for Agriculture and Nutrition Actions (IMMANA)
Name of the organisation	Innovative Methods and Metrics in Agriculture for Nutrition Actions (IMMANA) IMMANA partners: <ul style="list-style-type: none"> • London School of Hygiene & Tropical Medicine • Tufts University • SOAS University of London • Leverhulme Centre for Integrative Research on Agriculture and Health (LCIRAH)
Name of facilitator(s)	Suneetha Kadiyala, Associate Professor in Nutrition-Sensitive Development; Principal Investigator, IMMANA, London School of Hygiene & Tropical Medicine William A. Masters, Professor, Friedman School of Nutrition Science and Policy, Tufts University; IMMANA Fellowships Co-Director
Brief overview of session	Innovative Methods and Metrics for Agriculture and Nutrition Actions (IMMANA) is a research initiative that aims to accelerate the development of a robust scientific evidence base needed to guide changes in global agriculture and food systems to feed the world's population in a way that is both healthy and sustainable. IMMANA consists of three workstreams: <ul style="list-style-type: none"> • Competitive Research Grants to Develop Innovative Methods and Metrics for Agriculture and Nutrition Actions (IMMANA Grants) • Post-Doctoral Fellowships for Emerging Leaders in Agriculture, Nutrition, and Health Research (IMMANA Fellowships) • Agriculture, Nutrition & Health Academy - a global research network in agriculture and food systems for improved nutrition and health. IMMANA has now completed two rounds of Research Grants and issued three rounds of Postdoctoral Fellowships. This session provides an opportunity to share IMMANA's initial results, and connect with new partners.
Learning objectives/outcomes	The objectives of this session will be: <ul style="list-style-type: none"> • To share and discuss learning from the IMMANA programme at the midterm point • To introduce attendees of the ANH Academy Week to new research methods and metrics emerging from IMMANA • To offer networking opportunities between IMMANA Grantees and Fellows and the wider research community
Target audience	Researchers and users of research at all levels, in particular those interested in new methods and metrics.
Format	This session will consist of a series of plenary presentations followed by breakout group discussions. After the first hour in plenary, participants will split into smaller groups to interact with IMMANA Grantees and Fellows working on the following topics: <ol style="list-style-type: none"> 1. Intra-household resource allocation 2. Innovative large-scale survey methods 3. Models/ modelling for nutrition-sensitive agriculture 4. Capturing prices, markets and value chains 5. Working with user-generated data/ ICTs 6. IMMANA Postgraduate Fellowships Round 4 (information session for prospective applicants)

Session duration	2 hours
Level (basic or advanced – if advanced, please specify prerequisites)	Basic