

Goro YAMADA, PhD, MHS, MHS, MMS

Contact information

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Profile

- Serve as an Assistant Teaching Professor at Drexel Dornsife School of Public Health, after full-time assignment for the SALURBAL Project, a multi-country collaborative research project on urban health in Latin America.
- 20+ years of technical and managerial experience in biostatistics, epidemiology, disease control, health information, and project planning and management in the US, Latin America, Africa, and other regions, with research projects, governmental, bilateral and international organizations.

Education

- **Johns Hopkins Bloomberg School of Public Health** – Baltimore, Maryland Aug 2011 – Dec 2016
Doctor of Philosophy (**PhD**), Department of International Health
Master of Health Science (**MHS**), Department of Biostatistics
 - Concentrations: biostatistics, disease epidemiology and control, demographic methods.
 - Doctoral dissertation: Assessment and prediction of body mass index (BMI) distribution among adult populations in Mexico, Colombia, and Peru, 1988-2014.
- **Johns Hopkins School of Hygiene and Public Health** – Baltimore, Maryland Aug 1997 – May 1999
Master of Health Science (**MHS**), Department of International Health
 - Concentration: disease control and prevention, epidemiology.
- **University of Tsukuba, Institute of Basic Medical Sciences** – Tsukuba, Ibaragi, Japan Apr 1992 – Mar 1994
Master of Medical Science (**MMS**), Institute of Basic Medical Sciences
 - Concentration: pharmacology, physiology, biochemistry.
- **University of Tsukuba, College of Biological Sciences** – Tsukuba, Ibaragi, Japan Apr 1988 – Mar 1992
Bachelor of Science (**BSc**), Institute of Basic Medical Sciences
 - Concentration: human biology.

Professional experience

- **Assistant Teaching Professor** Sep 2023 – Present
Drexel Dornsife School of Public Health, Department of Epidemiology and Biostatistics – Philadelphia, Pennsylvania

As a teaching faculty member:

- Teach intro and intermediate biostatistics, and data management for undergraduate and graduate students;
- Mentor students;
- Engage in and facilitate the school's administrative activities;
- Continue supporting the SALURBAL Project on data management and analysis.

- **Senior Scientist** Sep 2019 – Aug 2023
Drexel Dornsife School of Public Health, Urban Health Collaborative – Philadelphia, Pennsylvania

At the SALURBAL Project, a multi-country collaborative research project on urban health in Latin America:

- Oversaw and supported data management and analysis aspects of the project;
- Led a study group for studies related to viral events and coordinated research studies in the group;
- Taught two biostatistics courses to undergraduate and graduate students.

- **Research Associate** Nov 2016 – Sep 2019
Johns Hopkins Bloomberg School of Public Health (JHSPH), Department of Epidemiology – Baltimore, Maryland

At data coordinating centers for multi-center observational studies and clinical trials for nonalcoholic liver diseases and gastroparesis:

- Conducted data management and analysis for research studies;
- Prepared manuscripts, conference abstracts, and reports (e.g., DSMB report).

- **Project Formulation Advisor** Feb 2010 – Mar 2011
Japan International Cooperation Agency (JICA), Bolivia Office – La Paz, Bolivia

As a technical advisor in health in the country office:

- Supervised health program; Led a mid-term evaluation; Provided technical assistance in project management, health information system, epidemiology, and maternal and child health;
- Coordinated with the Ministry of Health and other development partners for scaling up good practices.

- **Chief Advisor / Expert in Infectious Disease Control** Nov 2007 – Jan 2010
JICA, Amhara Regional Infectious Disease Surveillance Project – Bahir Dar, Ethiopia

In a joint project between Amhara Regional Health Bureau and JICA to strengthen infectious disease surveillance and response:

- Directed and supervised overall project activities; Coordinated with health authorities and other development partners;
- Facilitated improvement of health offices and health facilities through direct supervision and in-service training, and provision of materials and equipment.

- **Technical Officer** Mar 2006 – Sep 2007
World Health Organization (WHO), Headquarters, Health Metrics Network (HMN) – Geneva, Switzerland

At the secretariat office of HMN, that aimed to strengthen health information systems (HIS) and information use:

- Conducted quantitative and qualitative analysis of health information systems in the countries;
- Led the development and refining of the HMN HIS Assessment Tool; Provided inputs to the development and revision of other technical documents;
- Coordinated with countries for grant negotiation and project implementation in the Middle East, Eastern Europe, and Latin America regions;
- Organized inter-country workshops in the above-mentioned regions, including the review of vital statistics system.

- **Technical Officer** Sep 2005 – Mar 2006
WHO, Headquarters, Equity in Health Team – Geneva, Switzerland

At the Secretariat of the Commission on Social Determinants of Health:

- Prepared a global report on the trend in research on equity and social determinants of health;
- Established and maintained a virtual website for knowledge management.

- **Project Formulation Advisor** Feb 2005 – May 2005
JICA, Honduras Office – Tegucigalpa, Honduras Mar 2004 – Jul 2004

As a person-in-charge of health at the JICA country office:

 - Led to the initiation of 1-year MoH-JICA project and an agreement on the framework of a new 5-year project in maternal and child health;
 - Investigated policies and strategies of MoH and other development partners and built a collaborative relationship with them; Drafted JICA's cooperation policy with Honduras in the health sector;
 - Supervised health- and water-related projects.

- **Expert in Epidemiology** Dec 2001 – Dec 2003
JICA, Project for Strengthening Regional Health Network of Santa Cruz Department – Santa Cruz, Bolivia

 - Built capacity of the department office, district offices, and health centers in planning, monitoring, and evaluation of health activities and analysis of the health status of the population;
 - Improved the health information system and increased the capacity of the surveillance and statistics teams of the department office in data management, statistical analysis, and the interpretation of data;
 - Implemented and strengthened community health activities with the participation of health center staff and community members in the urban city.

- **Associate Expert in Public Health** Sep 2000 – Dec 2001
JICA, Medical Cooperation Department, Headquarters – Tokyo, Japan

 - Supervised health projects in Zambia and Jamaica at the headquarter office;
 - Acquired project management and evaluation skills and evaluated projects as a member of mission teams;
 - Assisted in developing a strategic guideline in planning projects on HIV/AIDS.

- **Research Associate / Quality Assurance Officer** Jun 1999 – Aug 2000
Intern Sep 1998 – Mar 1999
JHSPH, Department of International Health, ZVITAMBO Project – Harare, Zimbabwe

Working in a clinical trial of vitamin A supplementation on HIV transmission through breastfeeding:

 - Assessed and monitored project activities through statistical analysis;
 - Conducted data management and cleaning; Improved the quality of data and increased the capacity of the local staff for its maintenance;
 - Improved follow-up rate through coordination with the study clinics and home visit program;
 - Designed and conducted standardization activities for study nurses;
 - Developed an operational manual.

- **Science Teacher** Apr 1994 – Sep 1996
Japan Overseas Cooperation Volunteers (JOCV), Atebubu Secondary School – Atebubu, Ghana

 - Taught science and mathematics at secondary school;
 - Rehabilitated the school science lab and improved the capacity of the lab assistant.

Other work experiences (Johns Hopkins Bloomberg School of Public Health)

Consultation / Research Assistant

- **Statistical research assistant** (June 2014 – present), for Dr. Melissa Melby, University of Delaware, and Dr. Pamela Surkan, Department of International Health. Data analysis on child and adolescent obesity and associated maternal and infant factors among Japanese children.
- **Tutor for Stata and statistics** (January 2013-January 2014), for Dr. Virginia M Weaver, Department of Environmental. Tutoring on data analysis with Stata and analytical methods.
- **Data analyst** (June – August 2012), for Dr. Shivam Gupta, Department of International Health. Data analysis on factors associated in a decline of antenatal care in Tanzania using DHS data.

Classroom instruction

Drexel Dornsife School of Public Health (2021 – present)

Instructor

- **Introduction to Statistical Computing [with SAS]** (2024, fall term, for graduate and undergraduate students)
- **Introduction to Biostatistics** (2024, for graduate students, winter and summer terms)
- **Biostatistics II** (2024, winter term, for undergraduate students, face to face)
- **Intermediate Biostatistics I** (2022-24, spring term, for graduate students, online)
- **Public Health Data Analysis** (2021-3, fall term, for undergraduate students, face to face)

Johns Hopkins Bloomberg School of Public Health (2012 – 2019)

Instructor

- **Statistical Methods in Public Health IV** (2017-9, 4th term)

Teaching Assistant

- **Statistical Methods in Public Health IV** (2015, 4th term).
- **Population Dynamics and Public Health** (2014, summer term).
- **Data Analysis Workshop I and II** (2014, summer institute of epidemiology and biostatistics).
- **Methods and Measures in Population Studies** (2014, 4th term).
- **Stata Programming** (2013, 4th term).
- **Statistical Methods in Public Health I and II** (2012, 1st and 2nd term).

Research grant participation

- **What makes cities healthy, equitable, and environmentally sustainable? Lessons from Latin America / SALURBAL Project**, 2019-2025, Wellcome Trust.

Principal Investigator: Ana Diez Roux

Purpose: To study how urban environments and urban policies impact the health of city residents throughout Latin America.

Duties: Oversee data management of vital statistics and population. Provide statistical assistance (2023 Fall – present). Oversee data management and statistical aspects in the project. Lead a study group on vital events. Provide statistical support to study investigators (– 2023 Summer).

- **Nonalcoholic Steatohepatitis Clinical Research Network (NASH CRN) Data Coordinating Center, 2004-2019, NIDDK.**

Principal Investigator: James Tonascia

Purpose: To develop studies and clinical trials to investigate treatments for nonalcoholic steatohepatitis.

Duties: Conduct biostatistical analyses and participate in proposal writing and manuscript preparation for conference abstracts, presentations, and publications.

- **Gastroparesis Clinical Research Consortium (GPCRC) Data Coordinating Center, 2006-2019, NIDDK.**

Principal Investigator: James Tonascia

Purpose: To develop studies and clinical trials to investigate etiology, natural history, and therapies for gastroparesis.

Duties: Conduct biostatistical analyses and participate in proposal writing and manuscript preparation for conference abstracts, presentations, and publications.

Other training

- **Theory and practice of focus group discussion** Jun 2001
Management Sciences for Health (MSH) / Health and Development Service (HANDS), Japan
- **Project Cycle Management (PCM) Method – monitoring and evaluation** May – Jun 2001
Foundation for Advanced Studies on International Development (FASID), Japan
- **Design and management of HIV/AIDS projects and PCM Method – participatory planning** Nov 2000
FASID, Vietnam.

Professional membership

- Member, **American Statistical Association (ASA)**, 2016 – present
- Member, **American Public Health Association (APHA)**. 1998 – present
- Member, **Global Health Council**. 2003 – 2017

Honors and awards

- **Inductee, Phi Beta Kappa**, Johns Hopkins University May 2016
- **Inductee, Delta Omega Society**, Johns Hopkins School of Hygiene and Public Health (JHSPH) May 1999
- **Recipient**, The Nancy Stephens Student Support Fund, JHSPH May 2015

Other relevant information

- Certified in Public Health (CPH) Examination, 2016
- Statistical Software: Stata (advanced), R (fluent), SAS (fluent), SPSS (fluent)
- Senior high school teacher's license of science (1st grade), Japan. (March 1992)
- Junior high school teacher's license of science (1st grade), Japan. (March 1992)

Publications

Journal articles

- Quistberg DA, ..., **Yamada G**, et al. Impact of an enhanced sobriety checkpoints programme and publicity campaign on motor vehicle collisions, injuries and deaths in Leon, MX: a synthetic control study. *Inj Prev*. 2024 Jul 22:ip-2023-045019. doi: 10.1136/ip-2023-045019. Epub ahead of print. PMID: 39038940.
- Texcalac-Sangrador JL, Pérez-Ferrer C, ..., **Yamada G**, et al. Speed limits and their effect on air pollution in Mexico City: A quasi-experimental study. *Sci Total Environ*. 2024 May 10; 924:171506. doi: 10.1016/j.scitotenv.2024.171506. Epub 2024 Mar 6. PMID: 38453090; PMCID: PMC10999787.
- Gouveia N, ..., **Yamada G**, SALURBAL Group. Short-term associations between fine particulate air pollution and cardiovascular and respiratory mortality in 337 cities in Latin America. *Sci Total Environ*. 2024 Apr 10;920:171073. doi: 10.1016/j.scitotenv.2024.171073. Epub 2024 Feb 19. PMID: 38382618; PMCID: PMC10918459.
- Baldovino-Chiquillo L, ..., **Yamada G**, et al. Effects of an urban cable car intervention on physical activity: the TrUST natural experiment in Bogotá, Colombia. *Lancet Glob Health*. 2023 Aug;11(8):e1290-e1300. doi: 10.1016/S2214-109X(23)00274-7. PMID: 37474235
- Santos GFd, ..., **Yamada G**, et al. Socioeconomic Urban Environment in Latin America: Towards a Typology of Cities. *Sustainability*. 2023 Jan 4; 15980;6380. <https://doi.org/10.3390/su15086380>
- Gill RM, ..., **Yamada G**, et al. The nonalcoholic steatohepatitis extended hepatocyte ballooning score: histologic classification and clinical significance. *Hepatol Commun*. 2023 Feb 1;7(2):e0033. doi: 10.1097/HC9.000000000000033. PMID: 36724127.
- Bakhtsiyarava M, ..., **Yamada G**, et al. Modification of temperature-related human mortality by area-level socioeconomic and demographic characteristics in Latin American cities. *Soc Sci Med*. 2023 Jan;317:115526. doi: 10.1016/j.socscimed.2022.115526. Epub 2022 Nov 9. PMID: 36476939; PMCID: PMC9870751.
- Tumas N, ..., **Yamada G**, et al. Are Women's Empowerment and Income Inequality Associated with Excess Weight in Latin American Cities? *J Urban Health*. 2022 Dec;99(6):1091-1103. doi: 10.1007/s11524-022-00689-5. Epub 2022 Nov 10. PMID: 36357625; PMCID: PMC7613896.
- Perner MS, ..., **Yamada G**, et al. Cesarean sections and social inequalities in 305 cities of Latin America. *SSM Popul Health*. 2022 Sep 27;19:101239. doi: 10.1016/j.ssmph.2022.101239. PMID: 36203470; PMCID: PMC9529579.
- Castillo-Riquelme M, **Yamada G**, et al. Aging and self-reported health in 114 Latin American cities: gender and socio-economic inequalities. *BMC Public Health*. 2022 Aug 5;22(1):1499. doi: 10.1186/s12889-022-13752-2. PMID: 35932016; PMCID: PMC9356475.
- Guimarães JMN, **Yamada G**, et al. Racial inequities in self-rated health across Brazilian cities: does residential segregation play a role? *Am J Epidemiol*. 2022 Mar 4:kwac001. doi: 10.1093/aje/kwac001. Epub ahead of print. PMID: 35244147.
- Sarosiek I, ..., **Yamada G**, et al. Effect of Domperidone Therapy on Gastroparesis Symptoms: Results of a Dynamic Cohort Study by NIDDK Gastroparesis Consortium. *Clin Gastroenterol Hepatol*. 2022 Mar;20(3):e452-e464. doi: 10.1016/j.cgh.2021.05.063. Epub 2021 Jun 2. PMID: 34089855; PMCID: PMC8636553.

- Parkman HP, Van Natta M, **Yamada G**, et al. Body weight in patients with idiopathic gastroparesis. *Neurogastroenterol Motil.* 2021 Feb;33(2):e13974. doi: 10.1111/nmo.13974. Epub 2020 Sep 15. PMID: 32930463; PMCID: PMC8180181.
- **Yamada G**, Castillo-Salgado C, Jones-Smith JC, Moulton LH. Obesity prediction by modelling BMI distributions: application to national survey data from Mexico, Colombia and Peru, 1988-2014. *Int J Epidemiol.* 2020 Jun 1;49(3):824-833. doi: 10.1093/ije/dyz195. PMID: 31665300.
- **Yamada G**, Jones-Smith JC, Castillo-Salgado C, Moulton LH. Differences in magnitude and rates of change in BMI distributions by socioeconomic and geographic factors in Mexico, Colombia, and Peru, 2005-2010. *Eur J Clin Nutr.* 2020 Mar;74(3):472-480. doi: 10.1038/s41430-019-0479-9. Epub 2019 Aug 5. PMID: 31383977.
- Abell TL, **Yamada G**, et al. Effectiveness of gastric electrical stimulation in gastroparesis: Results from a large prospectively collected database of national gastroparesis registries. *Neurogastroenterol Motil.* 2019 Dec;31(12):e13714. doi: 10.1111/nmo.13714. Epub 2019 Oct 4. PMID: 31584238; PMCID: PMC6863164.
- Siddiqui MS, **Yamada G**, et al. Diagnostic Accuracy of Noninvasive Fibrosis Models to Detect Change in Fibrosis Stage. *Clin Gastroenterol Hepatol.* 2019 Aug;17(9):1877-1885.e5. doi: 10.1016/j.cgh.2018.12.031. Epub 2019 Jan 4. PMID: 30616027; PMCID: PMC6609497.
- Parkman HP, **Yamada G**, et al. Ethnic, Racial, and Sex Differences in Etiology, Symptoms, Treatment, and Symptom Outcomes of Patients With Gastroparesis. *Clin Gastroenterol Hepatol.* 2019 Jul;17(8):1489-1499.e8. doi: 10.1016/j.cgh.2018.10.050. Epub 2018 Nov 4. PMID: 30404035; PMCID: PMC6500483.
- Melby MK, **Yamada G**, Schwartz DA, Surkan PJ. One size does not fit all: Examining ethnicity in gestational weight gain guidelines. *Health Care Women Int.* 2019 Apr;40(4):365-385. doi: 10.1080/07399332.2018.1531864. Epub 2019 Feb 11. PMID: 30742558.
- **Yamada G**, Castillo-Salgado C, Jones-Smith JC, Moulton LH. Differences in magnitude and rate of change in adult obesity distribution by age and sex in Mexico, Colombia and Peru, 2005-2010. *Public Health Nutr.* 2019 Mar;22(4):757-763. doi: 10.1017/S1368980018002343. Epub 2018 Sep 26. PMID: 30253818.
- Melby MK, **Yamada G**, Surkan PJ. Inadequate gestational weight gain increases risk of small-for-gestational-age term birth in girls in Japan: A population-based cohort study. *Am J Hum Biol.* 2016 Sep 10;28(5):714-20. doi: 10.1002/ajhb.22855. Epub 2016 May 6. PMID: 27153770; PMCID: PMC5234265.
- Gupta S, **Yamada G**, Mpembeni R, Frumence G, Callaghan-Koru JA, Stevenson R, Brandes N, Baqui AH. Factors associated with four or more antenatal care visits and its decline among pregnant women in Tanzania between 1999 and 2010. *PLoS One.* 2014 Jul 18;9(7):e101893. doi: 10.1371/journal.pone.0101893. PMID: 25036291; PMCID: PMC4103803.
- Hama H, Kasuya Y, Sakurai T, **Yamada G**, Suzuki N, Masaki T, Goto K. Role of endothelin-1 in astrocyte responses after acute brain damage. *J Neurosci Res.* 1997 Mar 15;47(6):590-602. doi: 10.1002/(sici)1097-4547(19970315)47:6<590::aid-jnr4>3.0.co;2-8. PMID: 9089207.
- **Yamada G**, Hama H, Kasuya Y, Masaki T, Goto K. Possible sources of endothelin-1 in damaged rat brain. *J Cardiovasc Pharmacol.* 1995;26 Suppl 3:S486-90. PMID: 8587454.
- Yasuda N, Kasuya Y, **Yamada G**, Hama H, Masaki T, Goto K. Loss of contractile activity of endothelin-1 induced by electrical field stimulation-generated free radicals. *Br J Pharmacol.* 1994 Sep;113(1):21-8. doi: 10.1111/j.1476-5381.1994.tb16168.x. PMID: 7812613; PMCID: PMC1510077.

- Shiba R, Sakurai T, **Yamada G**, Morimoto H, Saito A, Masaki T, Goto K. Cloning and expression of rat preproendothelin-3 cDNA. *Biochem Biophys Res Commun*. 1992 Jul 15;186(1):588-94. doi: 10.1016/s0006-291x(05)80849-6. PMID: 1378731.

Other publications and reports

- **Yamada G**, Doctoral Dissertation: Assessment and prediction of body mass index (BMI) distributions among adult populations in Mexico, Colombia, and Peru, 1988-2014.
- Using the HMN framework to assess country health information system, interim report July 2007 (report to the 8th Health Metrics Network (HMN) Board Meeting). HMN, WHO, 2007.
- Status report: country HIS assessment activities, 2007 (report to the Technical Advisory Group Meeting, Health Metrics Network). HMN, WHO, 2007.
- Approaches for systematic planning of development project <anti-HIV/AIDS measures>, Institute for International Cooperation, Japan International Cooperation Agency (JICA), 2002.
- **Yamada G**, Master of Health Science Essay: Quality assessment of lymph node palpation and anthropometry in the ZVITAMBO Project, Harare, Zimbabwe. School of Hygiene and Public Health, Johns Hopkins University, 1999

Presentations

ISEE 2024: 36th Annual Conference of the International Society of Environmental Epidemiology, Santiago, Chile

- Castillo Riquelme M, **Yamada G**, et al. Association of urban infrastructure and physical activity in Santiago and its modifications by neighborhood and municipality level socio-economic characteristics (SES). <https://doi.org/10.1289/isee.2024.1016> (oral)
- Castillo Riquelme M, Melly S, **Yamada G**, et al. Spatial Inequalities in Urban Infrastructure for Physical Activity in Greater Santiago: Municipality and Neighborhood Analysis. <https://doi.org/10.1289/isee.2024.0974> (poster)

ISEE 2023: 35th Annual Conference of the International Society of Environmental Epidemiology, Kaohsiung, Taiwan

- Gouveia N, ..., **Yamada G**. Associations between fine particulate air pollution and cause specific mortality in 337 cities in Latin America from 2009 to 2010. <https://doi.org/10.1289/isee.2023.OP-174>

Digestive Disease Week (**DDW**), San Diego, 2019

- Abell T, **Yamada G**, et al. Clinical Characteristics of Patients with Symptoms of Gastroparesis and History of Pancreatitis. *Gastroenterology*. 2019; 156(6): S-553–S-554.
- Parkman HP, **Yamada G**, et al. Body Weight and Body Weight Changes in Gastroparesis: Relationship to Symptoms of Gastroparesis. *Gastroenterology*. 2019; 156(6): S-792.

The Liver Meeting, American Association for the Study of Liver Diseases (**AASLD**), San Francisco, 2018.

- Dennis E, Quehenberger O, **Yamada G**, et al. A Novel Circulating Lipidomic Signature Suitable for High Throughput Scale-up to Identify Nonalcoholic Fatty Liver Disease with Near Certainty [Abstract #1681].
- Siddiqui MS, **Yamada G**, et al. Diagnostic Accuracy of Non-Invasive Fibrosis Models to Detect Change in Fibrosis Stage [Abstract #1738].
- Siddiqui MS, **Yamada G**, et al. Impact of Age on Diagnostic Performance of FIB-4 for Detection of Advanced Fibrosis [Abstract #1742].
- Blondet NM, **Yamada G**, et al. Relationship between the pattern of hepatic iron deposition and histological severity in nonalcoholic fatty liver disease [Abstract #1668].

Digestive Disease Week (**DDW**), Washington DC, 2018

- Parkman HP, **Yamada G**, et al. Ethnic and Racial Differences in Gastroparesis: Relationships with Etiology, Symptoms, and Treatment. *Gastroenterology*. 2018; 154(6): S-226-S-227.
- Sarosiek I, **Yamada G**, et al. Effect of Domperidone on Gastroparesis Symptoms: Analysis of Patients Treated with Domperidone in the NIDDK Gastroparesis Clinical Research Consortium (GpCRC) Registry. *Gastroenterology*. 2018; 154(6):S-306-S-307.

American Public Health Association (**APHA**) Annual Meeting, Denver, 2016.

- **Yamada G**, Jones-Smith J, Castillo-Salgado C, Moulton LH. Differences in magnitude and rate of change in BMI distributions by geographic and socioeconomic factors: Mexico, Colombia, and Peru, 2005-2010 [4075.2 Health Disparities Research in Epidemiological Studies - Poster Session].
- **Yamada G**, Jones-Smith J, Castillo-Salgado C, Moulton LH. Obesity projection by modeling BMI distribution: Using national health survey data from Mexico, Colombia, and Peru, 1988-2013 [3194.0 Chronic Disease Epidemiology - Poster Session 3].
- Melby MK, **Yamada G**, Surkan PJ. Can the effects of inadequate gestational weight gain on small-for-gestational age risk be buffered by sociocultural factors? [2045.0 Multi-Level Poster Session]