

Kanetaka M. Maki, Ph.D.

Associate Professor, Waseda Business School
1-6-1 Nishi-waseda, Shinjuku-ku, Tokyo 169-8050, Japan
kanetaka@kanetaka-maki.org +81-(0)3-5272-1632

As of April 20th, 2024

Academic Experience (Primary Appointments)

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| 2017 - Current | Associate Professor, Waseda Business School |
| 2016 - 2017 | Assistant Professor, National Graduate Institute for Policy Studies |
| 2015 - 2016 | Research Associate, Walter H. Shorenstein Asia-Pacific Research Center, Stanford University |
| 2002 - 2008 | Research Associate, Graduate School of Media and Governance, Keio University |

Academic Experience (Joint Appointments)

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| 2024- | Visiting Associate Professor, Stanford University in the Department of Civil and Environmental Engineering in the School of Engineering and Doerr |
| 2024- | Visiting Professor, Kochi University |
| 2023 - 2024 | Lecturer, Graduate School of Medicine, Keio University |
| 2019 - 2021 | Visiting Associate Professor, Faculty of Science and Engineering, Keio University |
| 2016 - Current | Visiting Assistant/Associate Professor, Rady School of Management, University of California San Diego |
| 2015 - Current | Affiliated Fellow, National Institute of Science and Technology Policy (Japan) |
| 2010 - 2015 | Visiting Senior Researcher, Keio Research Institute at SFC |

Research Interest

Socio-Economics of Innovation and Entrepreneurship, Technology Management, Science Policy, University-Industry Technology Transfer

Research Contribution

- (a) The institutional design of innovation system in connection with research universities
- (b) The key success factor of high-tech startups
- (c) Comparative quantitative research of star scientists

Education

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| 2010-2015 | Ph.D. in Management, University of California San Diego |
| 2000-2002 | Master of Media and Governance, Keio University (Major: Information Technology) |
| 1996-2000 | B.A. in Environmental Information, Keio University (Major: Information Technology) |

Dissertation

Title: The Institutional Design for University Knowledge Transfer and Firm Creation

Committee Members: Vish Krishnan (Chair), Sanjiv Erat, Josh Graff-Zivin, Karsten Hansen, Ulrike Schaede, Robert S. Sullivan, Lynne G. Zucker (University of California, Los Angeles)

Academic Training

- Stanford d.school Teaching Learning Studio 2.0 (TLS 2.0) 2023 (Stanford Univ.)
- Waseda University T-UNITE – Babson Global Symposium for Entrepreneurship Educators 2021 (Waseda Univ. and Babson College)
- Global Innovation Catalyst – The Innovation Execution (iX) Program Certified Instructor (Stanford Univ.), 2021
- Stanford d.school Virtual Teaching Learning Studio (vTLS) 2020 (Stanford Univ.)
- Case Writing Workshop 2019 (Harvard Business School)
- Babson Fellows Program for Entrepreneurship Education 2018 (Babson College)
- Global Colloquium for Participant Centered Learning 2018 (Harvard Business School)
- NBER Entrepreneurship Research Boot Camp 2015
- 2013 Academy of Management – Technology and Innovation Management Division Doctoral Consortium

Professional Service (Government/Policy)

2024 – Current Member, Science to Startup Task Force, KEIDANREN (Japan Business Federation)

2023 – Current Member, Cabinet Secretariat, "Concept Meeting for Delivering the Latest Pharmaceuticals to the Public Swiftly Due to Improved Drug Development", Cabinet Office (Held in Prime Minister's Office)

2023 – Current Member, Industrial Structure Council, Ministry of Economy, Trade and Industry

Joint Research Partners

- University of Tokyo Co-Creation Platform Development Corporation (2023)
- Greater Horizon Corporation [Donation] (2023)
- Shimiz Corporation (2022-2023)
- ITOCHU Techno-Solutions Corporation (2021)
- Sompo Japan Insurance Inc. (2021)
- Mitsubishi Electric Corporation (2020-2023)
- Zuva Corporation (2020)
- Global Catalyst Partners (2020)
- Azusa Audit Corporation (2020-2021)
- Mitsubishi UFJ Research and Consulting Co., Ltd. (2019)

Refereed Academic Publications

- Fujita, M., Sumikura, K., & Maki, K.M., “Analyzing Characteristics of Diversity of Star Scientists by Research Field Using the Indicators of Field Diversity and Institution Diversity”, *The Journal of Science Policy and Research Management*, Vol. 38, No.4 2023
- Fini, R., Perkmann, M., Kenney, M., and Maki, K.M., “Are Public Subsidies Effective for University Spinoffs? Evidence from SBIR Awards in the University of California System”, *Research Policy*, 52(1), 2023
- Yoshida, A., and Maki, K.M., “The Effect of Startups’ IPO on Further Growth”, *Venture Review* No. 40, November 2022
- Matsuda D., T. Yoshioka-Kobayashi and K. M. Maki, "Entrepreneurial Orientation on Clinical Development in Pharmaceutical Industry: Fixed-Model Analysis," 2022 Portland International Conference on Management of Engineering and Technology (PICMET), Portland, OR, USA, 2022, pp. 1-11, doi: 10.23919/PICMET53225.2022.9882621.
- Harmouche A., Maki K. and Doukhi-Moukaddem Y., "Venture capital as a driver of startup innovation in Algeria: A survey of the Algerian, Tunisian and Moroccan contexts between 2016 and 2020", *Scientific Review of Economic Future*, Vol 9., pp 394-411, December 2021
- Maki, K., Fukushima, M., “Development of the Ecosystem in San Diego—Industrial Agglomeration to Ecosystem” (in Japanese), *Venture Review* No.35, March 2020
- Nagane, H.S., Fukudome, Y. and Maki K.M., “An analysis of star scientists in Japan,” 2018 IEEE international conference on engineering, technology and innovation (ICE/ITMC). IEEE, 2018.
- Sumikura, K., Sugai N., and Maki, K.M., “The involvement of San Diego-based star scientists in firm activities.” 2018 IEEE International Conference on Engineering, Technology and Innovation (ICE/ITMC). IEEE, 2018.
- Ungerer, C., Konig, M., Baltes, G., Maki, K.M., “On the interconnectedness of value network maturity and new technology-based firm survival.” 2017 International Conference on Engineering, Technology and Innovation (ICE/ITMC). IEEE, 2017.
- Krishnan, V., Maki, K.M., Castillo, E.M. and Guss, D.A., "Service Design for Improved Satisfaction: Decoding the Mechanism for Impact of Patient Call Back in Emergency Healthcare", *Service Science* Vol. 7 Issue 4, 2015
- Maki, K., Miyachi, E. and Kabasawa, S., “Study on How to Use Alumni Network as Mentor Platform in Entrepreneurial and Incubation Process for University Start-ups with Technology Seeds”, *The Journal of the Institute of Image Information and Television Engineers* Vol. 65 No.3, 20, 2011 (in Japanese)
- Maki, K., Miyachi E. and Kabasawa, S., “Study on Designing Business Incubation Platform of Creating Network Closure and Structural Holes for Regional Innovation System –Based on Case Study of EGG JAPAN
- Maki, K. and Yamanaka, Y., “Research on Designing Support Network for University Incubation Based on Categorizing University-Spinoffs”, *Japan Ventures Review* No.12, Mar. 2008 (in Japanese, Research Note)
- Maki, K., “Research on Characteristics of Global and Local Network for Incubation Platform”, *Japan Ventures Review* No.9, Sep. 2006 (in Japanese, Research Note)
- Maki, K., “Research on Incubation Method Using Business Plan Competition as Platform”, *Japan Ventures Review*, Mar. 2006 (in Japanese, Research Note)
- Maki, K., “Research on Distanced Board Meeting Using Network for Venture Management”, *GLOCOM Review*, Sep. 2003 (in Japanese)

- Maki, K., Arai, M., Kondo, Y., Suzuki, T. and Yamane, T., "Tutorial for ThinkQuest'98 Participants", Journal of Japanese Society for Information and Systems in Education Vol.15 No.4, Jan. 1999 (in Japanese)

Invited Academic Publications

- Sumikura, K., Sugai, N., and Maki, KM., "Highly Cited Researchers in Japan and US: Focusing on University of Tokyo, Kyoto University and UCSD", The Journal of Science Policy and Research Management Vol. 34, No. 2, 2019
- Nagane, S., Fukudome, Y., and Maki, KM., "How Can We Detect Star Scientists?: The classification and Overall Picture of Star Scientists in Japan from Multiple Viewpoints", The Journal of Science Policy and Research Management Vol. 34, No. 2, 2019

Publications / Books

- Maki, KM., "Training for Scientific Thinking", PHP, October 2022
- Tatsuo Sasaki, Hiromi S. Nagane, Yuta Fukudome, and Kanetaka M. Maki, "Innovation Policy and Star Scientists in Japan", edited by Yong Suk Lee and Fei Yan, "Drivers of Innovation: Entrepreneurship, Education, and Finance in Asia", Shorenstein Asia-Pacific Research Center, July 2021
- Maki, KM., "Science, Technology, and Entrepreneurship", Toyo Keizai Inc., March 2022
- Maki, KM., "Digital Transformation of University Education", Kawashima, Y. Ed. "Education and Society will Change by Digitalization and Globalization", Toshindo, 2021 (forthcoming)
- Nagane, H., Sasaki, T. Fukudome, Y. and Maki, KM., "Innovation Policy and Star Scientists in Japan", Young Suk Lee and Fe Yan Eds., "Drivers of Innovation: Entrepreneurship, Education, and Finance in Asia", Stanford University Shorenstein Asia-Pacific Research Center Series with Brookings Institution Press, 2021 (forthcoming)
- Maki, KM., "A Study of Star Scientists Shows Learning from Failures is Key to Innovation", Diamond Harvard Business Review, March 2020
- Maki, KM., "Scientific Experiments and Future of Innovation", Ningen Kaigi, Summer 2020
- Kimura, K., and Maki, KM., "Introduction – Change in East Asia Economy", Kimura, K. Eds, "Innovation in East Asia", Sakuhinsha, 2019
- Maki, KM., "Is Japan Still Behind as an Entrepreneurial Nation?", Nextcom Vol. 34, Summer 2018
- Saito, H., and Maki, KM., "Star Scientists: The Engine of Innovation in Japan", Hitotsubashi Business Review 2017 Summer

Working Papers

- Maki, KM., "Star Scientists and Innovation in Japan", JST-RISTEX Policy Paper, 2021
- Tokuhashi, K., Yoshioka-Kobayashi, T., and Maki, KM. "Should Corporate Researchers Aim to be a Specialist? – The Effect of Exogeneous Topic Change on the Quality of Invention", Waseda University STE Working Paper Series, 2020
- Maki, K., Sumikura, K., Sugai, N., Hayashi, G., and Akaho, R., "Star Scientists White Paper 2020", Waseda University STE Working Paper Series, 2020

- Takayama, C., Yoshioka-Kobayashi, T., and Maki, KM., “Relationship Between Designers’ Role and Success of Product Development”, Waseda University STE Working Paper Series, 2019
- Miyachi, E., and Maki, K., “Star Scientists and Nikkei’s Articles”, Waseda University STE Working Paper Series, 2019
- Matsuda, D., Yoshioka-Kobayashi, T. and Maki, KM., “The Effect of Entrepreneurial Orientation on Drug Development of Pharmaceutical Firms”, Waseda University STE Working Paper Series, 2019
- Kusachi, S., and Maki, KM., “Artificial Intelligence and University-Industry Collaboration”, Waseda University STE Working Paper Series, 2019
- Maki, KM., Sugai, N., Sumikura, K., Hara, Y., and Nagane, H., “Detecting Star Scientists and Constructing the Cohort Dataset”, Waseda University STE Working Paper Series, 2019

Papers Under Journal Review

- Chihiro Takayama, Toru Yoshioka(Kobayashi), and Kanetaka Maki, “The Relationship between the expansion of the role of designers in organization and product success”

Papers in Preparation for Journal Submission / Work in Progress

- Maki, KM., “Star Scientists and Innovation in Japan -Based on Empirical Evidence”

Case Studies

- Dohi, J., Hirano R., and Maki KM., “Open Innovation of the Quantum Computing Center (Keio Quantum Computing Center -KQCC) 2020”, Waseda University STE Case Series, February 2022
- Ishii, M., Maki, KM., “Human Resource Development Program at Keio Institute for Advanced Biosciences”, Waseda University STE Case Series, January 2020
- Amano, T., Nakamoto, H., and Amano, T., “Diamond Princess Cruise and COVID-19”, Waseda University STE Case Series, September 2020
- Otsuki, K., Maki, KM., “COVID-19 and Pricing of Vaccine”, Waseda University STE Case Series, September 2020
- Hayashida, J., and Maki, KM., “Sozo Ventures”, Waseda University STE Case Series, January 2020
- Sasaki, T., Ishii, M., and Maki, KM., “Scientist Masaru Tomita”, Waseda University STE Case Series, October 2019
- Matsuda, D., Dohi, J., and Maki, KM., “Global Catalyst Partners Japan and Open Innovation (A)”, Waseda University STE Case Series, July 2019
- Maki, KM., Uematsu, S., and Fukushima, M., “San Diego Ecosystem 2018”, Waseda University STE Case Series, July 2019
- Maki, K., "SFC Intellectual Property Management", Keio University Case, Jan. 2006
- Maki, K., "SIV Business Plan Competition", Keio University Case, Dec. 2005

Academic Conferences (Refereed)

- Matsuda, D., Yoshioka-Kobayashi, T., & **Maki, K. M.**, “Entrepreneurial Orientation on Clinical Development in Pharmaceutical Industry: Fixed-Model Analysis”, 2022 Portland International Conference on Management of Engineering and Technology (PICMET), August 2022
- Sumikura, K., Sugai, N., and Maki, KM., “The Involvement of San Diego-Based Star Scientists in Firm Activities”, 2018 IEEE International Conference on Engineering, Technology and Innovation (ICE/ITMC), June 2018
- Nagane, H., Fukudome, Y. and Maki, KM., “An Analysis of Star Scientists in Japan”, 2018 IEEE International Conference on Engineering, Technology and Innovation (ICE/ITMC), Stuttgart, Germany, June 2018
- Ungerer, C., König, M., Baltes, G., and Maki, KM. “On the Interconnectedness of Value Network Maturity and New Technology-Based Firm Survival”, ICE/IEEE Conference 2017, June 2017
- Maki, KM., “The Role of SBIR Awards for University-based Startups: Are They Substitutes or Complement for the Venture Capital Funding”, International Workshop “University-Industry Linkages and Innovation” (Bologna), June 2017
- Maki, KM., “Milestones to University-Based Startup Success: What is the Impact of Academic Inventor Involvement?”, International Workshop “University-Industry Linkages and Innovation”, February 2016
- Maki, KM., Krishnan, V. and Kenney, M., “The Key Success Factors of University Start-ups -Evidence From University of California”, 2015 Babson College Entrepreneurship Research Conference (Accepted but did not present)
- Maki, KM., Krishnan, V. and Guss, DA., “The Impact of Post-Discharge Patient Call Back on Patient Satisfaction with the Emergency Department and Doctors and Nurses in Two Academic Emergency Departments”, Society for Academic Emergency Medicine 2014 Annual Meeting, May 2014 (Poster Session)
- Maki, KM., "The Impact of Technology Transfer Office on Knowledge Creation and Transfer: Evidence from a Natural Experiment in Japan", Darden & Judge Entrepreneurship and Innovation Research Conference 2013, May 2013 (Poster Session)
- Maki, K., Miyachi, E. and Kabasawa, S., "The Architecture of Innovation System for the Commercialization of Science - The Incentive Structure for the Decisions of Financial Resource Allocation", VIII Triple Helix Conference, October 2010
- Maki, K., Miyachi, E. and Kabasawa, S., "Designing the Incentive Structure for the Commercialization of Science -How to Bridge the Financial Gap between Science and Commercialization-", IAMOT 2010, March 2010
- Maki, K., Miyachi, E. and Kabasawa, S., "Optimization of Financial Incentive Structure for the Commercialization of Science", The 2nd ISPIM Innovation Symposium, December 2009
- Maki, K., “The Design and Implementation of Know How Licensing Scheme for Venture Incubation”, 2006 AUTM Annual Meeting, Mar. 2006

Invited Presentation

- "Designers unnamed: Author Accreditation and Product Design Innovation," NTU-NUS-Hitotsubashi Joint Workshop, National University of Singapore, Singapore, March 2024 (Presenter: Yoshioka-Kobayashi, T., with

Takayama, C.)

- “Star Scientists and Innovation in Japan”, 7th research meeting, National Graduate Institute for Policy Studies
- “Star Scientists and Entrepreneurial Ecosystem”, University of Glasgow, May 2019
- “Star Scientists in Japan”, KAIST, Seoul, February 2019
- “Star Scientists and Innovation in Japan”, Jeju National University, February 2019
- “Innovation Policies and Star Scientists in Japan”, CEAJP WORKSHOP “Who Changes the Status Quo? The Role of Star Scientists in Science Intensive Industry”, December 2018 (with Tetsuo Sasaki)
- “Innovation Policies and Star Scientists in Japan”, Stanford-Tsinghua Asia-Pacific Innovation Conference – “Analyzing Public Policies for Entrepreneurship and Innovation in East Asia”, September 2018 (Presenter Tetsuo Sasaki)
- “Star Scientists in Japan”, UCLA Anderson Strategy’s Innovation and Creativity Workshop, March 2018 (with Hiromi Nagane)
- “The Role of SBIR Awards – Decomposing the Characteristics of University-based Startups – Preliminary Results”, Kyoto University, February 2018
- “The Role of SBIR Awards – Decomposing the Characteristics of University-based Startups –”, Knowledge and Cognitive Systems Working Group and the Creativity and Innovation Workshop at University of California Los Angeles, February 2017
- “The Role of SBIR Awards for the University-based Start-ups”, Asian Innovation Project, APARC, Stanford, February 2017
- “The Role of SBIR Awards for the University-based Start-ups”, NUS Entrepreneurship Centre: Science, Technology & Innovation Policy Research Seminar, January 2017
- “The Key Success Factors of University-based Startups – Case of University of California (Preliminary Results”, Tohoku University, December 2016
- “Milestones to University-Based Startup Success: What is the Impact of Team Composition?”, Waseda Organizational and Financial Economics Seminar, July 2016
- “Milestones to University-Based Startup Success: What is the Impact of Academic Inventor Involvement?”, Hosei University, December 2015
- “Milestones to University-Based Startup Success: What is the Impact of Academic Inventor Involvement?”, Stanford Silicon Valley New Japan Project Public Forum Series, December 2016
- “Inventor Involvement in the Success of University-Based Startups”, Hitotsubashi University Institution of Innovation Research, October 2015
- “Inventor Involvement in the Success of University-Based Startups”, University of Tokyo Policy Alternative Research Center, October 2015
- “Inventor Involvement in the Success of University-Based Startups”, National Graduate Institute for Policy Studies and National Institute of Science and Technology Policy, October 2015
- “Collaborative Innovation and Knowledge Creation –Evidence from a Natural Experiment in Japan”, Babson College, October 2014
- “Collaborative Innovation and Knowledge Creation –Evidence from a Natural Experiment in Japan”, UCLA Anderson School - The Innovation and Creativity Workshop, April 2014
- “The Impact of Technology Transfer Office: Evidence from Natural Experiment in Japan”, 2014 American

Association for the Advancement of Science (Session: "Are We Making the Best Use of Academic Knowledge in Innovation System?"), Feb. 2014

- "Collaborative Innovation and Knowledge Creation –Evidence from a Natural Experiment in Japan", UC San Diego Global / Pacific / Visiting Scholar Lunch, Jan. 2014
- "The Impact of Technology Transfer Office on Knowledge Creation and Transfer: Evidence from a Natural Experiment in Japan", Kobe University, Mar. 2013
- "The Downside of Technology Transfer Office -Empirical Research on the Volume of University-Industry Technology Transfer (Preliminary Results), UC San Diego Japan Lunch, Oct. 2012

Research Grants

- Grants-in-Aid for Scientific Research (B), "Detecting the Future Star Scientists Using Deep Learning" (2024-2026)
- Grants-in-Aid for Scientific Research (B), "The Effect of Star Scientists' Involvement on Startups' Success" (2021-2024)
- JST-RISTEX, "Science for Scientific Technology Innovation Policy" R&D Program "Star Scientists and Innovation in Japan" (2017-2020)
- Grants-in-Aid for Scientific Research for Young Scientists - Support for Development of an Independent Foundation (Trial) (2018-2019)
- Grants-in-Aid for Scientific Research for Young Scientists (B), "Research on the Role of Star Scientists in UC Startups" (2018-2019)
- National Graduate Institute for Policy Studies, Policy Study Center Research Project (2016) (Total: 600,000yen)
- Grants-in-Aid for Scientific Research (KAKENHI) for Young Scientists (B) (2016, 2017) (Total: \$30,000)

Scholarship

- Dean's Fellowship for Summer Research, Rady School of Management, University of California, San Diego (2011, 2012, 2013, 2014, 2015) (Total: \$21,000)
- Rady Academic Year Fellowship, Rady School of Management, University of California, San Diego (2013, 2014, and 2015) (Total: \$21,000)
- Joseph Naiman Fellowship for Japanese Studies 2013, Program in Japanese Studies, University of California, San Diego (\$1,000)
- Yoshida Scholarship Foundation Fellowship 2009 (\$97,000)
- Keio University Graduate School Fellowship 2009 (\$5,000)

Awards

- Waseda Business School Teaching Award - "Technology and Operations Management" (Fall, 2019)
- Waseda Business School Teaching Award - "Science, Technology, and Entrepreneurship" (Spring, 2018)

Training / Certificate

- Virtual Teaching and Learning Studio program from the Hasso Plattner Institute of Design (d.school) 2021 (Stanford University)
- Waseda University T-UNITE – Babson Global Symposium for Entrepreneurship Educators 2021 (Babson College)
- Case Writing Workshop 2019 (Harvard Business School)
- Babson Fellows Program for Entrepreneurship Education 2018 (Babson College)
- Global Colloquium for Participant Centered Learning 2018 (Harvard Business School)
- NBER Entrepreneurship Research Boot Camp 2015
- 2013 Academy of Management – Technology and Innovation Management Division Doctoral Consortium

Teaching

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| 2021 – Current | “Evidence Based Management” (Waseda Business School) |
| 2020 - Current | “Lab to Market: Commercialization of Science & Technology, and Scientific Thinking” (Waseda Business School) |
| 2019 - 2021 | “Practical Case Studies” (Co-teaching, Waseda Business School) |
| 2019 - Current | “Social Science of Energy and Innovation” (Co-teaching, Waseda University) |
| 2019 | “Research Methods for Social Science” (Co-teaching, Waseda Business School) |
| 2018 | “Yutori: What high school students should learn now in order to solve social problems around the world. - Things that teachers don’t teach you in (a required) class” (Keio Shonan Fujisawa Jr. & Sr. High School) |
| 2017 - 2021 | “Science, Technology and Entrepreneurship” (Waseda Business School) |
| 2017 - Current | “Technology and Operations Management” (Waseda Business School) |
| 2016 - Current | “Science, Technology, and Entrepreneurship” (National Graduate Institute For Policy Studies) |
| 2014 - Current | “Innovation to Market A” (University of California San Diego) |
| 2006 - 2009 | “Entrepreneurship II” (Keio University) |
| 2006 - 2009 | “Entrepreneurship I” (Keio University) |

Professional Experience

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| 2006-2010 | Partner, Office for Business Innovation, Mitsubishi Estate Co., LTD. |
| 2002-2008 | Founding Chief Officer, Keio SIV Incubation Village |

Professional Service (Academic)

- Program Advisor, ImPACT “Planned Serendipity” (2015 - 2019)
- Advisor, Global CONNECT (2011 - 2015)
- Committee Member, University Spinoff Research Committee (Hosted by Ministry of Economy, Trading and Industry, Japan) (2006 - 2009)
- Sixth Annual Global CONNECT Conference Organizing Committee, San Diego, USA, 2008
- REE ASIA 2007 Organizing Committee, Seoul, South Korea