

CURRICULUM VITAE

TSUYOSHI (YOSHI) KANO

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Language: English (proficient), Japanese (native)

Education

- 2015-present Ph.D. in Information Science, School of Information, University of Michigan
Research field: Information and Communication Technology (ICT) for international development
Research topics: Innovation, digital skill development, ICT industry development
Advisor: Prof. Kentaro Toyama & Prof. Joyojeet Pal
- 2002-2004 M.Sc. in Information Science, Yokohama National University
Research topic: Natural language processing
Thesis title: Pattern driven extraction of motion relationship and application for meaning analysis from a corpus of news articles
- 1998-2002 B. Eng. in Computer Science, Yokohama National University
Thesis title: Composition of amorphous fluorocarbon polymer films using plasma CVD

Work Experience

- 2019-present *Teaching/Research Assistant*, University of Michigan, USA
& 2015-2017 Teaching Python/Data Science courses for master/undergraduate students.
Conducting research on entrepreneurship and ICT human resource management in Bangladesh and Rwanda.
- 2020-present *Visiting Professor*, Kobe Institute of Technology, Japan
Lecturing on an irregular base.
- 2019-present *Co-Founder and CEO*, ICT for Development (NPO), Japan
Running an online media and online community on ICT for development in Japan.
- 2018-present *Visiting Professor*, University of Miyazaki, Japan
Researching on ICT human resource development project in Bangladesh.
- 2017-2019 *ICT Specialist*, Office of IT System, Japan International Cooperation Agency (JICA), Japan
Designed and managed digital transformation and system development projects for efficient budget, project, and procurement management in JICA.
Worked as the ICT task force member to utilize technology for JICA's projects.

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- 2012-2015 *ICT and Urban Development Sector Specialist*, JICA, Bangladesh
Led ICT sector projects
 Loan: Telecom backbone network improvement (\$104 million)
 Technical assistance: National ICT certificate, ICT fare collection system
Led urban development sector projects
 Loan: Urban water supply (\$440 million)
 Technical assistance: Water fare collection, Solid waste management
Coordinated multi-stakeholders (governments, private companies, donors).
- 2008-2012 *ICT Sector and Africa Specialist*, JICA, Japan
Led technical cooperation projects on ICT human resource development in Vietnam, Bangladesh, and the Philippines.
Led grant telecommunication projects in Afghanistan and Pakistan.
Planned and managed JICA volunteer programs in southern Africa.
- 2004-2008 *Systems Architect*, Nomura Research Institute, Japan
Designed and developed an online stock trading system as a system architect, and operated the system as an administrator.

Research Paper (Peer-reviewed)

- IT Career Aspirations in Bangladesh: a Trigger for Development?, with Kentaro Toyama. *Received from an international journal but not yet published*
- 2020 Kano, T., Toyama, K. (2020). Bottlenecks of ICT Innovation in Rwanda. *Proceedings of the Eleventh International Conference on Information and Communications Technologies and Development, Paper – ICTD 2020 – [\[link\]](#)*
- 2019 Kano, T., Sheikh, A, M. Toyama, K. (2019). Bimodal IT Career Aspirations in Bangladesh. *Proceedings of the Tenth International Conference on Information and Communications Technologies and Development Notes – ICTD 2019 – [\[link\]](#)*
- 2016 Kano, T., Toyama, K. (2016). Geographic Diversification of ICTD Research. *Proceedings of the Eighth International Conference on Information and Communications Technologies and Development Notes – ICTD 2016 – [\[link\]](#)*
- 2016 Marathe, M., Chandra, P., Kameswaran, V., Kano, T., Ahmed, S. I. (2016). In search of missing pieces: A re-examination of trends in ICTD research. *Proceedings of the Eighth International Conference on Information and Communications Technologies and Development Notes –ICTD 2016 – [\[link\]](#)*
- 2013 Kano, T. (2013). Impact of the introduction of IC card transport fare collection system and anti-corruption. *Proceedings of the Sixth International Conference on Information and Communications Technologies and Development Notes – ICTD 2013 – [\[link\]](#)*

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Research Paper (without Peer-review)

- 2020 狩野剛・神戸宏彰. (2020). 「国際開発における DX 推進のボトルネック —国際開発人材と ICT 人材の協創に向けたアプローチの導出—」 (国際開発学会第31回全国大会)
- 2020 Oishi, A et al. (2020). Forecasting Internally Displaced People's Movements with Artificial Intelligence. *The 31st JASID Annual Conference*.
- 2019 狩野剛. (2019). 「オンライン高等教育(MOOCs)は海外留学の代替手段になりうるのか —ルワンダの事例から—」 (国際開発学会第20回春季大会)
- 2018 Kano, T., Obeysekare, E., Toyama, K. (2018). Can HCI Replicate the Intangible Gains of International Exposure? A Case Study in Rwanda. *HCI Across Borders: Paving New Pathways (Symposium@CHI 2018)* [\[link\]](#)
- 2018 狩野剛・河野久. (2018). 「IT人材育成における日本への留学・就業による内面的成長 —バングラデシュ・ルワンダの事例から—」 (国際開発学会第29回全国大会)

Book and magazine

- 狩野剛. (----). 「(仮) バングラデシュIT人材がもたらす日本の地方創生～協力隊が火をつけた新しい国際協力の形～」 (単著書籍として出版予定)
- 2020 狩野剛. (2020). 「特集『協創』の時代へ：DX」 (国際開発ジャーナル 2020年9月1日号) [\[link\]](#)
- 2018 狩野剛. (2018). 「携帯電話の普及率7割に 電子決済など成長企業続々」 (週刊エコノミスト 2018年6月26日号) [\[link\]](#)

Teaching Experience

- 2020 Fall Adjunct Lecturer: Sophia University
Introduction of technology and poverty reduction for undergraduate students
- 2020 July Guest Lecturer: Waseda University
Technology, education, and poverty reduction for undergraduate students
- 2020 Summer Teaching Assistant: University of Michigan
(4 months) Database (SIADS 611) and data science ethics (SIADS 503) for master students
- 2020 Winter Teaching Assistant: University of Michigan
(4 months) Intermediate Python programming (SI 507) for master students
- 2019 Fall Teaching Assistant: University of Michigan

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- (4 months) Intermediate Python programming (SI 206) for undergraduate students
- 2019 July Guest Lecturer: Yokohama National University
“Does a laptop change Education for Children?” for undergraduate students
- 2016-2017 Teaching Assistant: University of Michigan
(8 months) Introduction of Python programming (SI 106) for undergraduate students
- 2013-2017 Guest Lecturer: Kobe Institute of Computing
ICT for Development related topics for master students

Unpaid/Internship Work

- 2019 *Internship*, G-Care Inc, Japan
(2 months) Worked as a web engineer at a health care start-up (WordPress, SQL).
- 2017 *Research Internship*, ICT Chamber, Rwanda
(3 months) Researched strategy formulation, project formulation, monitoring, and evaluation of innovation and ICT industry development projects in the ICT sector.

Presentation

- 2020 June Online and future education after COVID
Presented at an online seminar organized by Tiger Mov, Inc.
- 2020 April Can technology alleviate poverty?
Lectured at Clark Memorial International High School.
- 2019 July Blockchain for International Development
Presented at Factory Phnom Penn, Cambodia.
- 2019 July Does a laptop change Education for Children?
Lectured at Graduate School of Management, Globis University.
- 2018 October Blockchain for SDGs
Presented at a seminar “Blockchain x Open Innovation” organized by Microsoft.

Award

- 2020 World Bank Graduate Scholarship Program (JJ/WBGSP)
Two years of scholarship for Ph.D. study/research
- 2020 Rackham Graduate Student Research Grant
USD 6,000 research grant for the field experiment on the mindset change in Bangladesh

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2015 Japan International Cooperation Agency (JICA)
Two years of scholarship for Ph.D. study/research

Skill

Programming Python / SQL / Perl / R / STATA / Wordpress / HTML