Jimson Gelbolingo Ngeo

Information Science Engineer

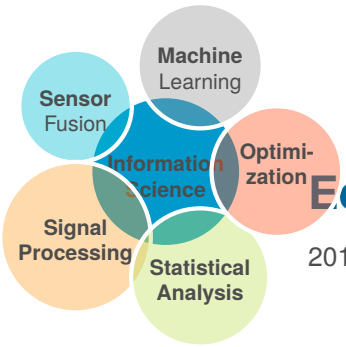
Address
Chiba-ken Chiba-shi
Mihama-ku
Masago 5-16-4-401

Tel
+81 80 4240 0512

Mail
jimsonngeo@
gmail.com

Web
https://linkedin.com/
in/jngeo/

Skills



Programming

Matlab • Python

C\C++ • QT

HTML • LaTeX

Experience

2016 - present
Operations Engineer — Weathernews, Inc., Japan
Provides 24/7 weather communication setup to marine vessels around the world to ensure safe and efficient operations through weather data-driven technological solutions.

2017 - 2018 **Technology Consultant** — Ximity Inc., Philippines
Supports product development of next generation Internet-of-Things (IoT) applications for the Philippine market, mainly focusing on Low Power Wide Area Network (LORAWAN) applications.

2014 - 2016 **Special Researcher** — Kyushu Institute of Technology, Kitakyushu Japan
Under the Human and Social Intelligence Systems Lab, trained PhD and Master students in machine learning applications and handling of specialized equipment. High experience in working with Gaussian Processes, Neural Networks and time-series and spatial-temporal data.

2008 - 2010 **Assistant Instructor** — Ateneo de Manila University, Philippines
Under the Department of Electronics, Computer and Communications Engineering, taught undergraduate courses in mathematics, telecommunications and electronics. Led research groups in developing biomedical applications.

Education

2013 - 2016 **PhD in Information Science** — Nara Institute of Science and Technology, Japan
Conducted research and published several articles and journals in Biomedical and Neuro-Engineering, specifically on Modeling dynamic and high degree-of-freedom finger kinematics from surface electromyographic (EMG) signals. Specialization is on machine learning, signal processing and sensors.

2011 - 2013 **Master in Information Science** — Nara Institute of Science and Technology, Japan
Conducted research and published academic papers in Rehabilitation and Neuro-engineering, specifically on continuous estimation of finger joint angles using muscle activation inputs from EMG signals.

2010 **Japanese Language Training Course** — Osaka University, Japan
Participated in an intensive Japanese language course for beginners in preparation for graduate school.

2003 - 2008 **BS in Electronics and Communications Engineering**
Ateneo de Manila University, Philippines

Languages

English ★★★★★
Filipino ★★★★★
Chinese ★★★☆☆
Japanese ★★☆☆☆

Publications

J. Ngeo, T. Tamei and T. Shibata
Continuous and simultaneous estimation of finger kinematics using inputs from an EMG-to-muscle activation model
In: Journal of NeuroEngineering and Rehabilitation, 11:122, 2014

J. Ngeo, T. Tamei, K. Ikeda and T. Shibata
Modeling dynamic high-DOF finger postures from surface EMG using nonlinear synergies in latent space representation
In: Proceedings of the 37th Annual International Conference of the IEEE Engineering in Medicine and Biology Society (EMBC), Milano, Italy, Aug 25–29, 2015

N. Koganti, J. Ngeo, T. Tamei, K. Ikeda and T. Shibata
Cloth dynamics modeling in latent spaces and its application to robotic clothing assistance
In: IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS 15), Hamburg, Germany, 2015

J. Ngeo, T. Tamei and T. Shibata
Estimation of continuous multi-DOF finger joint kinematics from surface EMG using a multi-output GP
In: Proceedings of the 36th Annual International Conference of the IEEE Engineering in Medicine and Biology Society (EMBC), Chicago, USA, Aug 26–30, 2014

J. Ngeo, T. Tamei, T. Shibata, M.F. Orlando, L. Behera, A. Saxena and A. Dutta **Control of an Optimal Finger Exoskeleton based on Continuous Joint Angle Estimation from EMG signals**
In: Proceedings of the 35th Annual International Conference of the IEEE Engineering in Medicine and Biology Society (EMBC), Osaka, Japan, Jul 3–7, 2013

J. Ngeo, T. Tamei and T. Shibata
Continuous Estimation of Finger Joint Angles Using Muscle Activation Inputs from Surface EMG Signals
In: Proceedings of the 34th Annual International Conference of the IEEE Engineering in Medicine and Biology Society (EMBC), San Diego, USA, Aug 28–Sep 1, 2012

Honors & Awards

2015 **IROS 2015** Best Application Paper Award
Title:Cloth dynamics modeling in latent spaces and its application to robotic clothing assistance. In: IEEE/RSJ International Conference on Intelligent Robots and Systems

2015 **IEEE-EMBS Summer School 2015** Best Poster Presentation Award
Paper Title:Continuous and simultaneous estimation of finger kinematics using inputs from an EMG-to-muscle activation model

2010 - 2016 **Japanese Government Scholarship** Research, M.S. and PhD Scholarships
Granted by the Monbukagakusho Scholarship Program

2012 **Creative and International Competitiveness Project 2012** 2nd Prize
Entry: An Anonymous and Intelligent Message Broadcasting Service for smartphone and handheld game console users, details here

2010 **Hapinoy Fisherman Breakthrough Innovation** 3rd Prize
Entry: Hapinoy Tingi Tawag Abroad (VOIP call station) for Philippine communities with insufficient IT infrastructure, details here

2008 **4th Smart Wireless Engineering Education Program (SWEEP) Award** 3rd Prize
Project on Smart Guards, a disease and epidemic tracking and alert system