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大阪大学大学院工学研究科 特任准教授, 2009 年 10 月–2017 年 4 月.

ビーレフェルト大学 客員研究員兼任, 2009 年 10 月–2016 年 12 月.

京都工芸繊維大学大学院工芸科学研究科 非常勤講師兼任, 2015 年 4 月–2015 年 9 月.

ビーレフェルト大学認知ロボティクス研究所 ポスドク研究員, 2008 年 2 月–2009 年 9 月.

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東京農工大学工学部 非常勤講師兼任, 2003 年 12 月–2004 年 3 月.

大阪大学大学院工学研究科 産学官連携研究員, 2002 年 11 月–2004 年 3 月.

学歴

大阪大学 博士（工学）取得, 2004 年 3 月.

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受賞歴

[1] Best Student Paper Award of the 5th International Conference on Human-Agent Interaction, 2017 年 10 月.

[2] 第 30 回人工知能学会全国大会 全国大会優秀賞, 2017 年 5 月.

[3] Babybot Challenge 1st Place Award of the 5th IEEE International Conference on Development and Learning and on Epigenetic Robotics, 2015 年 8 月.

[4] ロボカップジャパンオープン 2015 人工知能学会賞, 2015 年 5 月.

[5] 日本認知科学会第 31 回大会 大会発表賞, 2014 年 11 月.

[6] 大阪大学総長顕彰, 2014 年 7 月.

[7] Best Paper Research Award of the RAAD Workshop: Robotics in Alpe-Adria-Danube Region, 2013 年 9 月.

[8] 大阪大学総長顕彰, 2013 年 8 月.

[9] 人工知能学会研究会優秀賞, 2013 年 6 月.

[10] ロボカップジャパンオープン 2013 ロボカップ研究賞, 2013 年 5 月.

[11] Best Paper Award Finalist of the 16th Annual RoboCup International Symposium, 2012 年 6 月.

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[2] **Yukie Nagai**, “Robots that Learn to Interact with Others Like Infants,” University of Twente, Enschede, Netherlands, February 22, 2018.

[3] **Yukie Nagai**, “Predictive Learning: A computational theory that accounts for social cognitive development,” Paderborn University, Paderborn, Germany, February 20, 2018.

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[1] **長井志江**, “TBA,” 日本認知科学会第 35 回大会 OS「認知ミラーリングと社会的認知」, 大阪, 2018 年 8 月 30 日-9 月 1 日.

[2] **長井志江**, “自閉スペクトラム症の視覚世界を体験 ～なぜ対人コミュニケーションが難しいのかを考える～,” 世界自閉症啓発デー自閉スペクトラム症啓発講演会, 大阪, 2018 年 4 月 28 日.

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[4] **長井志江**, “ロボティクスが解き明かす脳の発達と発達障害,” 第 17 期金曜サイエンスサロン, 大阪, 2018 年 2 月 9 日.

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[10] **長井志江**, “認知ミラーリング：認知過程の自己理解と社会的共有による発達障害者支援,” 日本発達神経科学学会第 6 回学術集会, 大阪, 2017 年 11 月 25-26 日.

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[12] **長井志江**, “共感の神経基盤：計算論的アプローチから探るミラーニューロンシステムの発達,” 「人に共感する人工知能」研究会, 東京, 2017 年 7 月 31 日.

[13] **長井志江**, “ロボットとこころ,” 第 7 回 CiNet シンポジウム「脳情報は宝の山や！～おもろい研究とビジネスのスパイラル～」, 東京国際フォーラム, 東京, 2017 年 6 月 29 日.

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[20] **長井志江**, “予測学習理論に基づく認知発達メカニズムの構成的理解,” 日本発達神経科学学会第 5 回学術集会, 東京, 2016 年 11 月 26 日-27 日.

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[1] 大阪大学国際共同研究促進プログラム（短期人件費支援）“教示者の発話と運動呈示を利用したヒューマノイドロボット iCub による複雑な動作学習,” 2014 年 11 月–2015 年 3 月.
役割：代表

[2] 大阪大学最先端ときめき研究推進事業 “バイオサイエンスの時代における人間の未来,” 2010 年 8 月–2015 年 3 月.
役割：分担（代表：檜垣立哉）

[3] Cluster of Excellence “Cognitive Interaction Technology,” 2007 年–2012 年.
Role: Responsible Investigator (Coordinator: Helge Ritter)

各種委員会・学会活動

国際・国内会議実行委員会

[1] General Co-Chair of the 5th International Conference on Human-Agent Interaction, 2017.

[2] Publicity Co-Chair of the 7th Joint IEEE International Conference on Development and Learning and on Epigenetic Robotics, 2017.

[3] Advisory Board of the 4th International Conference on Human-Agent Interaction, 2016.

[4] General Co-Chair of the 11th ACM/IEEE International Conference on Human-Robot Interaction, 2016.

[5] Workshops and Tutorials Co-Chair of the 2015 IEEE International Conference on Robotics and Automation, 2015.

[6] Special Program Co-Chair of the 23rd IEEE International Symposium on Robot and Human Interactive Communication, 2014.

[7] Publication Co-Chair of the 9th ACM/IEEE International Conference on Human-Robot Interaction, 2014.

[8] General Chair of the 3rd Joint IEEE International Conference on Development and Learning and on Epigenetic Robotics, 2013.

[9] Program Chair of the 2nd Joint IEEE International Conference on Development and Learning and on Epigenetic Robotics, 2012.

[10] Publicity Chair of the 1st Joint IEEE International Conference on Development and Learning and on Epigenetic Robotics, 2011.

[11] Registration Chair of the 5th ACM/IEEE International Conference on Human-Robot Interaction, 2010.

[12] Communication Chair of the 4th IEEE International Conference on Development and Learning, 2005.

国際・国内会議プログラム委員会

[1] Program Committee of the IEEE International Conference on Development and Learning and on Epigenetic Robotics, 2011–2018.

[2] Program Committee of the ACM/IEEE International Conference on Human-Robot Interaction, 2011–2018.

[3] Program Committee of the IEEE-RAS International Conference on Humanoid Robots, 2012–2016.

[4] Program Committee of the IEEE International Symposium on Robot and Human Interactive Communication, 2016–2017.

[5] Program Committee of the IEEE/RSJ International Conference on Intelligent Robots and Systems, 2017.

[6] Program Committee of the HRI Pioneers Workshop, 2012–2016.

[7] Program Committee of the RO-MAN2015-WS “Emotion for Social Robotics,” 2015.

[8] Program Committee of the Annual Meeting of the Cognitive Science Society, 2015.

[9] Program Committee of the 1st International Workshop on Emotion for Sociable Agents, 2014.

[10] Program Committee of the International Joint Workshop on Advanced Sensing / Visual Attention and Interaction, 2013.

[11] Program Committee of the IROS2012-WS “Human Behavior Understanding,” 2012.

[12] Program Committee of the WCCI2012 Special Session “Bio-Inspired Developmental Mechanisms,” 2012.

[13] Program Committee of the IEEE International Conference on Development and Learning, 2006–2010.

[14] Program Committee of the International Conference/Workshop on Epigenetic Robotics, 2005–2010.

[15] Program Committee of the HAI (Human-Agent Interaction) Symposium, 2011–2012.

[16] Program Committee of the International Workshop on Gaze Sensing and Interactions, 2010.

[17] Program Committee of the 3rd International Conference on Human System Interaction, 2010.

[18] Program Committee of the International Workshop on Robotics for Young Researchers, 2009.

[19] Program Committee of the 4th International Symposium on Imitation in Animals and Artifacts, 2007.

[20] Program Committee of the 2006 Robotics: Science and Systems Conference, 2006.

その他

[1] Special Issues Editor for Journal of Human-Robot Interaction, 2017–now.

[2] Vice Chair of Autonomous Mental Development Technical Committee, Computational Intelligence Society of IEEE, 2012–now.

[3] IEEE CIS Technical Committee on Autonomous Mental Development, 2011–now.

[4] IEEE RAS Technical Committee on Cognitive Robotics, 2014–now.

[5] Steering Committee of Human-Robot Interaction, 2014–now.

[6] Review Editor of Frontiers in Neurorobotics, 2011–now.

[7] Review Editor of Frontiers in Robotics and AI: Humanoid Robotics, 2014–now.

[8] Scientific and Usage Advisory Board for EARS (Embodied Audition for RobotS) project, 2014–now.

[9] Organizer of the HAI2017 Workshop on “Representation learning for human and robot cognition,” 2017.

[10] Organizer of the IROS2016 Workshop on “Bio-inspired Social Robot Learning in Home Scenarios,” 2016.

[11] Organizer of the ICAR2015 Workshop on “Robot Learning: Bottom-up and top-down development of robot skills,” 2015.

[12] Organizer of the HRI2015 Workshop on “Cognition: A Bridge between Robotics and Interaction,” 2015.

[13] Organizer of the HRI2014 Workshop on “HRI: a bridge between Robotics and Neuroscience,” 2014.

[14] Organizer of the IJCNN2014 Special Session “Cognition and Development,” 2014.

[15] Organizer of the ICDL-EpiRob2013 Special Session “Constructive Developmental Science: Two Endeavors toward Understanding Human Development,” 2013.

[16] Organizer of the Humanoids2012 Workshop on “Can developmental robotics yield human-like cognitive abilities?,” 2012.

[17] Organizer of the Workshop on Robot Anthropology, 2012.

[18] Organizer of the IROS Workshop on “Cognitive Neuroscience Robotics,” 2011–2013.

[19] Organizer of the Bielefeld-Osaka Workshop on Cognition and Robotics, 2011.

[20] Organizer of the ICDL-EpiRob2011 Special Session “How can human scaffolding support robots learning?,” 2011.

[21] Organizer of the HRI2011 Workshop on “The role of expectations in intuitive human-robot interaction,” 2011.

[22] Organizer of the Bielefeld-Osaka Workshop, 2010.

[23] 日本ロボット学会展開セッション「GCOE 認知脳理解に基づく未来工学創成」オーガナイザ, 2010–2013.

[24] 日本ロボット学会展開セッション「構成論的発達科学―胎児からの発達原理の解明に基づく発達障害のシステム的理解―」オーガナイザ, 2013.

[25] 日本赤ちゃん学会第 13 回学術集会シンポジウム「構成（論）的発達科学の新展開」オーガナイザ, 2013.

学生指導

博士論文

[1] Jimmy Baraglia, “Prediction Error Minimization for the Emergence of Prosocial Helping Behavior,” 2016 年度大阪大学.

修士論文

[1] Jorge Luis Copete Vasco, “A Computational Model for Development of Action Recognition in Synchronization with Development of Action Production,” 2015 年度大阪大学.

[2] 黒木隆大, “色―情動の対応関係に基づく自閉症スペクトラム障害者の他者情動認識支援,” 2014 年度大阪大学.

[3] Shibo Qin, “Synthetic Approach to the Relationship between Audiovisual Stimuli and Atypical Perception in Autism Spectrum Disorder,” 2014 年度大阪大学.

[4] 大嶋悠司, “統語範疇の精緻化に基づく言語産出・理解発達の計算論モデル,” 2013 年度大阪大学.

[5] 角田龍平, “顕著性と予測誤差に基づく選好性の相互作用による注視対象選択のモデル化,” 2013 年度大阪大学.

[6] 森脇嵩量, “自閉症スペクトラム障害における部分的情報処理バイアスの発達モデル,” 2013 年度大阪大学.

[7] 河合祐司, “生体運動の持つ運動指令と視覚情報の不変性に基づく生物らしさ検出モデル,” 2012 年度大阪大学.

[8] 福嶋雄基, “予測的視線移動の発達メカニズム：時間窓の拡大をともなう注視対象の予測学習,” 2012 年度大阪大学.

[9] 堀井隆斗, “乳児期の触覚優位性に基づく感情分化モデル,” 2012 年度大阪大学.

[10] 小松広樹, “環境へ与える効果を基にした階層的な動作シンボルの生成,” 2011 年度大阪大学.

[11] 田中剛, “非明示的な動き情報を利用した物体の多様な機能認識システム,” 2011 年度大阪大学.

[12] 丁畑亮, “胎児期の環境的拘束が導く聴覚と運動のクロスモーダル表現の獲得,” 2011 年度大阪大学.

[13] 中谷明子, “移動エントロピーを用いた親子間相互作用における随伴性発達の構成的理解,” 2011 年度大阪大学.

卒業論文

[1] Niyati Rawal, “The role of featural and configural processing in the development of visual attention,” 2017 年度大阪大学.

[2] Shibo Qin, “Elucidating Spatiotemporal Contingency by Measuring Information Transfer in Caregiver-Infant Interaction,” 2012 年度大阪大学.

[3] 河合祐司, “視覚の精緻化が導く自他未分化状態から自他認知への発達モデル,” 2010 年度大阪大学.

[4] 木村浩隆, “発見的探索による柔軟なロボットの身体部位の協調,” 2010 年度大阪大学.

[5] 福嶋雄基, “顕著性に基づく動的な注視領域選択による目標・経路指向動作カテゴリの獲得,” 2010 年度大阪大学.

[6] 田中剛, “HOG 特徴と顕著性の統合による人物動作認識,” 2009 年度大阪大学.

[7] 中谷明子, “赤ちゃんロボットの注意行動が誘発する人間の親様動作教示の解析,” 2009 年度大阪大学.

所属学会

IEEE.

日本ロボット学会.

日本認知科学会.

技能

言語: 日本語（母国語）, 英語（流暢）, ドイツ語（基礎）

コンピュータ関連: Mac OS/Linux/Windows, C/C++, OpenCV, OpenGL, R, Latex

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http://developmental-robotics.jp