

RESEARCH INTERESTS

I like to understand the perceptuo-motor control of actions and as such, fundamental organizational principles in the central nervous system (CNS). I am interested in similarities and in differences in movement planning and execution e.g. of reaching and grasping in humans and in nonhuman primates. This includes the evolution of the motor control system, and brain asymmetries. A further important topic of my research interests is the psychophysics of movement disorder.

TEACHING

INTRODUCTION AND ADVANCED LEVEL

SEMINARY and PRACTICAL organized and taught (undergraduate and graduated levels) in COMPARATIVE ANATOMY (Musculo-skeletal Systems and Brain Anatomy); PSYCHOPHYSICS, BIOMECHANICS, PRINCIPLES OF NEUROSCIENCES; Visual System; ENDOCRINOLOGY, ANIMAL PHYSIOLOGY, BRAIN ASYMMETRY AND FUNCTIONAL LATERALITY, EFFECTS OF HORMONES ON BEHAVIOR, PRIMATES COGNITION AND EVOLUTION, GENDER DIFFERENCES AND THE BRAIN, CLINICAL COURSES IN DISEASES OF THE NEURONAL SYSTEM FOR NURSES, BIOMECHANICS FOR OCCUPATIONAL-, PHYSIOTHERAPISTS.

SELECTED PAPERS

Christel MI, Holst M. Symbolic compared to real target handling modifies the temporo-spatial pattern of synchronous bimanual coordination. Freie Universität Berlin (*submitted* 2013).

Christel MI, Jeannerod M, Weiss P, 2012. Functional synchronisation in repetitive bimanual prehension movements. *Experimental Brain Research*: Vol 217, Issue 2, 261-271.

Christel MI, Billard A, 2002. Comparison between macaques and humans kinematics of prehension: the role of morphological differences and control mechanisms. *Behav Brain Res*, 131:1-2, 169-184.

Christel MI, Fragaszy D, 2000. Manual function in *Cebus apella*. Digital mobility, preshaping, and endurance in repetitive grasping. *Int J Primatol* 21 (4): 697-719.

Christel MI, Kitzel S, Niemitz C, 1998. How precisely do bonobos (*Pan paniscus*) grasp small objects. *Int J Primatol* (1), 19: 165-198.

RECENT PROJECTS

Mechanism of bimanual coordination and functional synchronization.

Neuronal control and behavioral pattern. Kinematics and brain activity (EEG).

M. I. Christel. Kooperation: W. Sommer, V. Hafner, G. Schillaci, Informatik.

Humboldt Universität zu Berlin. M. Holst.

DESIGN OF AN APPARATUS (AZTM: APPARAT ZUR TESTUNG DER ZIELGENAUIGKEIT UND FEINMANIPULATION) plus MANUALE for the training and rehabilitation of bimanual coordination tasks in impaired upper limb function.

Attention on prehension in *Cebus apella*: How focal attention on manually demanding tasks interferes with ambient vigilance. M. I. Christel (Humboldt-Universität zu Berlin, Biopsychology); M. Busch-Dienstfertig, (Charité). Berlin, Germany). Kooperation: D. M. Fragaszy, Brian Stone (University of Georgia, Biopsychology, Neurosciences, USA).

RECENT POSITION

RESEARCH ASSOCIATE

Humboldt-Universität zu Berlin

Department of Psychology, Biological Psychology & Psychophysiology

<http://www.psychologie.hu-berlin.de/personal/7799236>

Marianne.Christel@hu-berlin.de

LECTURER IN BIOPSYCHOLOGY, NEUROPSYCHOLOGY

IPU (International Psychoanalytic University) Berlin: Biopsychology and Neurocognitive Psychology.

ASH (Alice Salomon Hochschule, Berlin) Occupational Therapy.

EDUCATION

Dr. rer. nat. BIOLOGY, HUMAN BIOLOGY (Magna cum laude), Freie Universität Berlin, and RUHR-UNIVERSITÄT Bochum, Anatomy, FUNCTIONAL MORPHOLOGY (C. Niemitz, H. Preuschoft, advisors). (1993)

CERTIFICATE 'EXPERT PRIMATOLOGIST'. Université Louis Pasteur Strasbourg, Faculté de Médecine, Dept. Genetics, France, and Ruhr-University Bochum, Dept Anatomy, Germany (Y. Rumpler, H. Preuschoft, advisors). (1990)

DIPLOMA IN BIOLOGY WITH MAJOR IN ANIMAL PHYSIOLOGY. Freie Universität Berlin, I. Zerbst, advisor). (1985)

PROFESSIONAL EXPERIENCES

2012 – recent RESEARCH ASSOCIATE AND LECTURER.

Humboldt-Universität zu Berlin. FB Psychologie, Biopsychology und Psychophysiology. Research project on Psychophysics of Bimanual Coordination.

2006–2011 RESEARCH ASSOCIATE FACULTY. (EU FP7 IMPACTG WP7, Neurorehabilitation). An-Institut der Bdh Klinik, Universitätsklinikum Dept. Neurosciences. Brain Voyager in Virtual Navigation for the synchronous use of Transcranial Magnetic Stimulation (TMS) (2009–2011).

VISITING SCIENTIST. Department of Cognitive Neuroscience, Faculty of Psychology, Maastricht Universiteit, Netherlands (MUN). Research Project Transcranial Magnetic Stimulation (TMS). Virtual Brain Navigation (The Brain Voyager) (March 2010, 4 weeks).

RESEARCH ASSOCIATE FACULTY. BdH Klinik Greifswald, Aninstitut Ernst-Moritz-Arndt-Universität. Lab set up, design of an apparatus. Synchronization of Surface-EMG and Electro-Goniometry. Study design and experiment on ballistic elbow flexion of 11 subjects. (2007–2009).

ADJUNCT FACULTY (Honorar). Humboldt Universität Berlin, Charite. Concepts for baseline protocol testing motor control of the upper extremity in healthy and impaired humans. Project Dr. T. Platz (2006).

2003 – 2005 RESEARCH ASSOCIATE FACULTY (Post doc), ARIZONA STATE UNIVERSITY, Harrington School of Bioengineering, (NSF) IGERT Program on Neuronal

Musculoskeletal Systems. Lab set up, installation of 3D motion analysis (Visualyze Phoenix Techn.). Experimental set up and design of an apparatus testing grasping movements related to object shapes. Study design and pilot study on 11 subjects.

2001 – 2003 LECTURER. Technical Univ Ilmenau. Wannsee-Schule für Physiotherapists (Biomechanics), Berlin; Akademisches Lehrkrankenhaus der Humboldt-Universität, Berlin (Neurological Diseases); Humboldt Universität zu Berlin, Dept. PHILOSOPHY, INTERDISZIPLINÄRES ZENTRUM, Germany (Gender Studies and Life Sciences).

ADJUNCT SCIENTIST (Honorar) Friedrich-Schiller-Universität Jena, Germany, Inst Spez Zoologie und Evolutionsbiol (MOVEMENT SYSTEMS); Scientific Consultant. EXHIBITION: "Hände Begreifen" ("HANDS AND COMPREHENSION". Evolution of Shape and Function of the Hand) Phyletisches Museum.

1991 – 2001 RESEARCH ASSOCIATE AND LECTURER, Freie Universität Berlin, Institut Biologie, AG Humanbiologie Berlin, Germany.

1988 – 1990 RESEARCH ASSOCIATE, Faculty, Ruhr-Universität Bochum, Germany, Anatomy, Functional Morphology (H. Preuschoft). RESEARCH ASSISTANT, Faculty, Ruhr-Universität Bochum, Anatomy, Functional Morphology (H. Preuschoft).

1986 – 1988 ADJUNCT LECTURER (Tutorin), FU Berlin, Biology, Animal Physiology and Evolutionary Biology for Biologists and Medical Students.

VISITING SCIENTIST

Department of Cognitive Neuroscience, Faculty of Psychology, Maastricht

Universiteit, Netherlands (MUN). A. Sack. (2010, 4 weeks). Renee de Descartes Université Paris. LAB DE NEUROPHYSIQUE ET PHYSIOLOGIE (LNP). DR. A. ROBY-BRAMI (2006, 14 Days). MAX-PLANCK-INSTITUT of Psychologie, München, Germany, F. Mechsner, W. Prinz. (2000, 1 month); REGIONAL PRIMATE RESEARCH CENTER (YERKES), Emory University, Sect. Behavioral Biology, Atlanta, USA (four month). W. Hopkins. (1997, 4 month); GEORGIA UNIVERSITY, ATHENS, Biopsychology Program USA, D. Fragaszy. (1996, 4 month); INSERM, VISION ET MOITRICITÉ, Lyon, France, M. Jeannerod. (1994, 3 weeks)

TECHNIQUES APPLIED FOR EXPERIMENTS AND PRACTICAL TEACHING

SURFACE-EMG, ELECTRO-GONIOMETRY (BIOMETRICS LTD). 3D-MOTION ANALYSIS (PEAK5 PERFORM, VISUALEYZE PHOENIX TECHN, OPTOTRAK); MRI VIRTUAL BRAIN SEGMENTATION AND NAVIGATION (SOFTWARE THE BRAIN VOYAGER). DISSECTION (UPPER EXTREMITY; BRAIN). ANTHROPOMETRY. MATLAB (BASICS IN PROGRAMMING OF MOVEMENT ALGORITHM). SPSS.

RESEARCH, QUALIFICATION AND TRAVEL GRANTS

DEUTSCHE FORSCHUNGSGEMEINSCHAFT (DFG). FELLOWSHIP: NRS UMR 8119- Université Paris Renee de Descartes. LAB DE NEUROPHYSIQUE ET PHYSIOLOGIE (LNP). DR. A. ROBY-BRAMI. (2006). RESEARCH GRANT II B3 149/1-4. GEORGIA UNIVERSITY, ATHENS, BIOPSYCHOLOGY, USA. DFG II B3 149/1-2; D. FRAGASZY. TRAVEL GRANT. INTERN/AMERICAN CONGRESS PRIMATOL. SOCIETY (IPS/APS). MADISON, WISC. TRAVEL GRANT IPS 1994. RESEARCH GRANT II B3 149/3-1. INSERM, VISION ET MOITRICITÉ, LYON, FRANCE. M. Jeannerod. TRAVEL GRANT II B3 149/2-1. (1996–1999)

SENAT BERLIN, FÖRDERPROGR WISSENSCHAFTLERINNEN/ HABILITATION. ST. 24/98/20. PERSONAL AND MATERIAL, I-5/98/20. TRAVEL GRANT ST.24/98/20, ASSC3 CONFERENCE AND LAB VISIT. UNIVERSITY OF WESTERN ONTARIO, CANADA. (1998-2000)

FREIE UNIVERSITÄT BERLIN (FU). KOMMISSION ZUR FÖRDERUNG DES WISS. NACHWUCHS (KFN). Habilitation and research grant M.CH 19/95-97. M.CH 19/94, M.CH 19/95, INSERM U 94, VISION ET MOITRICITÉ, Lyon, France. M. Jeannerod, P. Weiss. M.CH 19/97, YERKES Reg. Primate Research Center, EMORY UNIVERSITY, Atlanta, USA. WD. Hopkins, Frans de Waal. Georgia University, Athens, USA, Biopsychol Programm. D. Frigaszy. M.CH 19/96. (1994-1997)

ERASMUS PROGRAM. QUALIFICATION GRANT. COURSE 'EXPERT PRIMATOLOGIST'. UNIVERSITÉ LOUIS PASTEUR STRASBOURG, FACULTÉ DE MÉDECINE, FRANCE, AND RUHR-UNIVERSITY BOCHUM, DEPT. ANATOMY, H. Preuschoft, Y. Rumpler. (1990)

TEACHING EXPERIENCE AT

ARIZONA STATE UNIVERSITY, IGERT Program (Neuromuscular-Skeletal Systems). FREIE UNIVERSITÄT BERLIN, Humanbiologie. HUMBOLDT UNIVERSITÄT zu Berlin. RUHR-UNIVERSITÄT BOCHUM, Medizinische Fakultät, Funktionelle Anatomie. CHARITE LEHRKRANKENHAUS. ALICE SALOMON HOCHSCHULE (ASH) Berlin, Ergo-, Physiotherapie. WANNSEE SCHULE für Physiotherapeuten.

INTRODUCTION AND ADVANCED LEVEL

SEMINARY and PRACTICAL organized and taught (undergraduate and graduated levels) in COMPARATIVE ANATOMY (Musculo-skeletal Systems and Brain Anatomy); PSYCHOPHYSICS, BIOMECHANICS, PRINCIPLES OF NEUROSCIENCES; Visual System; ENDOCRINOLOGY, ANIMAL PHYSIOLOGY, BRAIN ASYMMETRY AND FUNCTIONAL

LATERALITY, EFFECTS OF HORMONES ON BEHAVIOR, PRIMATES COGNITION AND EVOLUTION, GENDER DIFFERENCES AND THE BRAIN, CLINICAL COURSES IN DISEASES OF THE NEURONAL SYSTEM FOR NURSES, BIOMECHANICS FOR OCCUPATIONAL-, PHYSIOTHERAPISTS.

SUPERVISOR FOR MASTER LEVEL AND GRADUATE STUDENTS

FREIE UNIVERSITÄT BERLIN, HUMAN BIOLOGY, GERMANY. ARIZONA STATE UNIVERSITY, BIOENGINEERING, USA. UNIVERSITY OF GEORGIA, BIOPSYCHOLOGY, YERKES PRIMATE RESEARCH CENTER, EMORY UNIVERSITY, GEORGIA USA.

STUDENT FELLOWSHIPS ORGANIZED AT FREIE UNIVERSITÄT BERLIN, HUMANBIOLOGIE, IN COOPERATION WITH EMORY UNIVERSITY, YERKES PRIMATE RESEARCH CENTER, BEHAV NEUROSCIENCE, USA; UNIVERSITY OF GEORGIA, USA, DAAD.

PROFESSIONAL SERVICE, SYMPOSIA ORGANIZED AND/OR CHAIRED

MEMBER OF COMMISSION ON DISSERTATION DEFENSE, PARIS, MCF-HDR, UMR 7179/MNHN/CNRS. (2012)

ORGANIZER and MEMBER OF THE SCIENTIFIC BOARD. Intern Primatol Society (IPS), Torino, Italy, in Coop. with D. Fragaszy. CURRENT RESEARCH ON MANUAL FUNCTION. (2004)

FREIE UNIVERSITÄT BERLIN, TECHNICAL UNIVERSITY (TU) and EINSTEIN FORUM POTSDAM, BERLIN. BRAIN AND GENDER (Natur/ Kultur/Geschichte). (2000)

Member-COMMITTEE, BEST STUDENT POSTER AWARDS at GERMAN PRIMATOL SOCIETY (GfP). (1997)

SOCIETY MEMBERSHIP

INTERNATIONAL SOCIETY OF MOTOR CONTROL (ISMC); EUROPEAN NEUROSCIENCE SOCIETY (NWG); GERMAN PRIMATOLOGY SOCIETY (GFP); INTERNATIONAL SOCIETY OF PRIMATOLOGY (IPS)

REVIEWER FOR

JOURNAL OF BIOMECHANICS; JOURNAL OF HUMAN EVOLUTION; BEHAVIOURAL BRAIN RESEARCH; AMERICAN JOURNAL OF PRIMATOLOGY; INTERNATIONAL JOURNAL OF PRIMATOLOGY ; ADAPTIVE BEHAVIOR; FOLIA PRIMATOLOGICA.

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PAPERS PEER REVIEWED

Platz T, Roschka S, Christel MI, Duecker F, Rothwell JC, and Sack A 2012. Early stages of motor skill learning and the specific relevance of the cortical motor system – a combined behavioural training and theta burst TMS study. *Restorative Neurology and Neuroscience* 30, 1–13.

CHRISTEL MI, Jeannerod M, Weiss P, 2012. Functional synchronisation in repetitive bimanual prehension movements. *Exp Brain Res* 217 (2), 261-271.

CHRISTEL MI, BILLARD A, 2002. Comparison between macaques and humans kinematics of prehension: the role of morphological differences and control mechanisms. *Behav Brain Res* 131:1-2, 169-184.

CHRISTEL MI, FRAGASZY D, 2000. Manual function in *Cebus apella*. Digital mobility, preshaping, and endurance in repetitive grasping. *Int J Primatol* 21 (4): 697-719.

CHRISTEL MI, KITZEL S, NIEMITZ C, 1998. How precisely do bonobos (*Pan paniscus*) grasp small objects. *Int J Primatol* (1), 19: 165-198.

CHRISTEL MI, 1994. Catarrhine primates grasping small objects- techniques and hand preferences. In: Anderson R, Roeder JJ, Thierry B, and Herrenschildt N (editors). *Curr Primatol III, Behav Neuroscience. Physiol and Reprod*, 45-67.

BOOK CHAPTERS

CHRISTEL MI, 1995. *Das weibliche Tier. Frauen zwischen Eigen- und Fremdkultur*. H. Helfrich (Hrsg.). DAEDALUS, Münster. pp. 36-63.

CHRISTEL M, 1993. Grasping techniques and hand preferences in primates. In HANDS OF PRIMATES. H. Preuschoft & D. J. Chivers (Hrsg.). SPRINGER, Wien, NY, pp. 92-108.

CHRISTEL M, 1993. *Das weibliche Tier – Soziobiologische Konzepte weiblicher Verhaltensweisen*. FORUM Berliner Wissenschaftlerinnen stellen sich vor. Publication of FREIE UNIVERSITÄET Berlin, Germany WS 1992/93. HEFT 14, S. 1-35.

CHRISTEL M, 1993. Greiftechniken und Handpraeferenzen verschiedener catarrhiner Primaten beim Aufnehmen kleiner Objekte. INAUGURAL DISSERTATION. FREIE UNIVERSITAET BERLIN GERMANY.

SHORT COMMUNICATIONS (PEER REVIEWED)

CHRISTEL MI, HE J. 2005. The interaction between wrist and finger movements during reaching to grasp natural objects. *Penn State University, Progress in Motor Control* v. 8/2005

CHRISTEL MI. 2004. How biomechanics affects prehension kinematics in primates. *In Proc of the International Society of Primatology*, Giacoma, C., Formenti, D., Gamba, M. (eds), *Folia Primatol*, Vol. 75, SUPPL. 1, pp. 119.

CHRISTEL MI. 2004. Current Research on Manual Function. *Folia Primatologica*, Vol 75(1), 81-81. Meeting Abstract.

CHRISTEL MI, BILLARD A. 2002. Kinematic rules in two primate species. Same effectors (hands) with different constraints. IN PROCEEDINGS 47. IWF. *Mech. Engineering*, ISSN-Nr. 0943-7207, TU Ilmenau, p. 298-299.

BILLARD A, CHRISTEL MI, SCHAAL S, 2001. Simulation of macaque's reaching range of motion. *Tech Rep*, Tech 01-366, Comp Sci Dept., Univ South California.

CHRISTEL MI, BILLARD A, 2000. How monkey's kinematics differ to humans. Morphol Constraints on Reach-to-Grasp. *Action and Visuo-Spatial Attention*. RWTH Aachen, H. Heine Univ. Düsseldorf. p. 53.

CHRISTEL MI, FRAGASZY D. 2000. Endurance as a Measure of Manual Dexterity and Performance in *Cebus apella*. *Folia Primatologica* 71:190.

CHRISTEL MI, WEISS P, BAVAR S, 1998B. How precisely do non-humans primates grasp small objects? A comparison of performances and between-hand differences with humans. *Folia Primatologia* 69(4): 206.

CHRISTEL MI, WEISS P, BAVAR S, 1998A. Temporal pattern and hand asymmetry in precise reach-to-grasp movements- a comparison between *H. sapiens* and *M. nemestrina*. *Biona Report* 13. Blickhan R, et al., (eds.). Akad. d. Wiss., Mainz, G. Fischer Stuttgart 1997: 120-121.

CHRISTEL MI, KITZEL S, NIEMITZ C, 1996. Time pattern of the left and right hand in

goal-directed precise and fine movements toward small objects in chimpanzees (*P.paniscus*) and humans. *Neuroforum. Proc. 1th Congr. Neuroscience Soc*, Berlin.

CHRISTEL MI, 1995B. Kinematics of precise grasping of the primate hand, compared between different species. In: *Learning and Memory. Proc. 23rd Neurobiology Conf.*, Göttingen, p. 24.

CHRISTEL MI, HOESCHEN G, PREUSCHOFT H, 1995A. Timing of reach-to-grasp in primates. *Primate Report 44*, Proc. 4th Congr. GfP, Kassel-Naumburg. p. 28.

CHRISTEL MI, NIEMITZ C, 1994b. Koerperhaltung, Gestaltung der Hand und Geschwindigkeiten von Cercop. beim praezisen Greifen. (Body posture, hand shaping). *Zool. Anzeiger (DZG)*, Jena, S. 40.

CHRISTEL M, 1994a. Linke oder rechte Hand? Eine Seite führt immer! In: Deutsches Primatenzentrum, *DPZ Aktuell*. S. 14.

CHRISTEL M, NIEMITZ C, 1993. Positionsverhalten und Timing des Greifens kleiner Objekte von cercopitheciden Arten. *Zeitschr Saeugetierkunde* 58, 10, 4.

CHRISTEL M, 1992. Greifpräzision und funktionelle Asymmetrie beim Handeinsatz von Menschenaffen. *Zeitschr Saeugetierkunde* 57, S. 14.

CHRISTEL M, 1991. A study on grasping techniques in Hominoidea. *Primate Report* (31):8.

INVITED LECTURES

RENE DESCARTES UNIVERSITY, PARIS. NRS UMR 8119- LAB NEUROPHYS ET PHYSIOLOGIE.

Psychophysics of natural prehension. A. Robi-Bramy (2006)

UNIV OF GEORGIA, Neuroscience and Biopsychology Program, USA. D. FRAGASZY (2004)

TECHNISCHE UNIVERSITÄT (TU) ILMENAU, Biomechatronics GERMANY. H. WITTE (2003)

MAX-PLANCK-INSTITUT Kognitive Neurologie. HP. THIER. SYMPOSIUM SPEAKER. Tübingen, Germany. (2003)

UNIVERSITÄT FREIBURG, Informatik, Germany. (2002)

UNIVERSITY COLLEGE LONDON, SOBELL Department of Neuroscience, R. LEMON UK. (2002)

TU ILMENAU, BIOMECHATRONICS, GERMANY. (2002)

FRIEDRICH-SCHILLER-UNIV JENA, INST SPEZ. ZOOLOGIE UND EVOLUTIONSBIOL, M. Fischer. GERMANY. (2001)

MAX-PLANCK-INSTITUT PSYCHOLOGISCHE FORSCHUNG, MÜNCHEN, GERMANY. W. Prinz, F. Mechsner. (2000)

STATE UNIV OF NEW YORK AT STONY BROOKS, ANATOMICAL SCIENCES, USA. B. Demes. (1997)

UNIVERSITY OF GEORGIA, ATHENS, BIOPSYCHOLOGY, USA. D. Fragaszy. (1996)

YERKES REGIONAL PRIMATE RESEARCH CENTER, EMORY UNIVERSITY USA. Frans de Waal (1996)

INSERM, UNITE 94, VISION ET MOITRICITÉ, LYON, FRANCE. M. Jeannerod (1996)

GESAMTHOCHSCHULE ESSEN, ALLGEMEINE ZOOLOGIE GERMANY. G. Klauer (1995)

MAX PLANCK GESELLSCHAFT, HUMANETHOLOGIE, ANDECHS GERMANY. (1995)

RUHR-UNIVERSITÄT BOCHUM, DEPT ZOOLOGY AND NEUROBIOL GERMANY. K.P. Hoffmann (1994)

PRIMATENZENTRUM (DPZ) GOETTINGEN GERMANY. KOCH (1994)

UNIVERSITÄT REGENSBURG, INSTITUTE OF PSYCHOLOGY GERMANY. (1993)

FREIE UNIVERSITÄT BERLIN. KOLLOQUIUM. ZE FRAUENFORSCHUNG GERMANY. (1993)

PAPERS READ AT CONFERENCES, SYMPOSIA AND COLLOQUIA

HUMBOLDT UNIVERSITÄT ZU BERLIN. Concepts and Issues of bimanual coordination. Colloquium (2012)

UNIVERSITÄTSKLINIKUM GREIFSWALD, NEUROSCIENCES. IMPACT G. Final report on Research Project Neurorehabilitation, EU Commission. Symposium (2011)

PROGRESS IN MOTOR CONTROL V, PENN STATE UNIVERSITY, USA. Conference (2005)

INTERNATIONAL SOCIETY OF PRIMATOLOGY. TORINO, ITALY. Conference (2004)

47 INTERNATIONALES WISSENSCHAFTSFORUM. TU ILMENAU, GERMANY. (2002)

ICVM, INT CONGRESS OF VERTEBRATE MORPHOLOGY (6TH). JENA, GERMANY. (2001)

MOTION SYSTEMS (IV). JENA, GERMANY. (2001)

FREIE UNIVERSITÄT BERLIN, GERMANY (COLLOQUIUM). Welches Geschlecht hat das Gehirn?). (2000)

ACTION AND VISUO-SPATIAL ATTENTION. FORSCHUNGSZ. JÜLICH, KOENIGSWINTER, GERMANY. (2000)

GESELLSCHAFT FUER PRIMATOLOGY (GFP). UTRECHT, NETHERLANDS. Conference (1999)

GESELLSCHAFT FUER PRIMATOLOGY. BERLIN, GERMANY. Conference (1997)

MOTION SYSTEMS (II), FRIEDRICH-SCHILLER-UNIVERSITÄT, SPORTWISS. JENA, GERMANY. Conference (1997)

INT PRIMATOL SOC (IPS) (XVITH) AND THE AMERICAN PRIM SOC (APS). MAD/WISC., USA.

(1996)

NEUROSCIENCE SOCIETY (I). BERLIN, GERMANY. Conference (1996)

GFP. KASSEL, GERMANY. Conference (1995)

IPS (XV). BALI, INDONESIA. Conference (1994)

DEUTSCHE ZOOL GESELLSCHAFT (DZB) GERMANY. Conference (1994)

GESELLSCHAFT FUER PRIMATOLOGY. TÜBINGEN, GERMANY. (1993)

INTERNATIONAL PRIMATOLOGICAL SOCIETY (XIV). STRASBOURG, FRANCE. (1992)

OTHER INVITED LECTURES

URANIA (INTERDISCIPLINARY CONF CENTER), BERLIN, GERMANY. PREHENSION AND COMPREHENSION. (2000); URANIA, BERLIN. CURRENT DISCUSSION ON GENDER DIFF IN COGNITION - CRITICAL APPROACHES. (1999); ROBERT-KOCH INSTITUT BERLIN GERMANY. RESENT RESEARCH ON THE BIOLOGY OF GENDER DIFFERENCES. (1999); URANIA. FEMALE BRAIN- MALE BRAIN. (WEIBLICHES GEHIRN – MÄNNLICHES GEHIRN) ARE THERE REALLY SEX DIFFERENCES IN BRAIN FUNCTION? (1998)

SCIENTIFIC JOURNALISM AND MEDIA PRESENCE, LIFE SCIENCES

SCIENTIFIC CONSULTANT: Evolution of the Hand WDR – W WIE WISSEN. (2012)

SCIENTIFIC CONSULTANT: 'HAND VOLL GEFÜHL', TV FEATURE AND LIVE INTERVIEW (CURRENT RESEARCH ON HAND FUNCTION AND COGNITION). GEO. GRUNER JAHR; PREMIERE, ARTE; VOX. (1999)

RADIO LIVE TALK. WDR. (VOM GREIFEN ZUM BEGREIFEN) ABOUT THE EVOLUTION OF THE HAND. (1997)

DEUTSCHLAND–RADIO, FEATURE. (HOW PRIMATE SOCIETIES ORGANIZE). (1996)

WDR. RADIO FEATURE (CHRISTEL, KLAPHECK). (PRIMATE SOCIETIES. HIERARCHICAL SYSTEMS AND DEMOCRACY). (1995)

UNTERSCHIEDE, 6/2: 38–41. (SOCIOBIOLOGY CONCEPTS FOR GENDER DIFFERENCES II). (1994)

SENDER FREIES BERLIN (SFB) RADIO FEATURE, (CHRISTEL, KLAPHECK). (1994)

DEUTSCHLAND–RADIO. FEATURE (EVOLUTION OF THE HAND AND COGNITION).

SFB 3, RADIO FEATURE. (CHRISTEL, KLAPHECK). (1993)

UNTERSCHIEDE, 4/1: 39–41. (SOCIOBIOLOGY CONCEPT FOR GENDER DIFFERENCES I). (1993)

MY PAPERS ARE CITED IN

NATURE REVIEWS NEUROSCIENCE; EUROPEAN JOURNAL OF NEUROSCIENCE; PROGRESS IN BRAIN RESEARCH; EXPERIMENTAL BRAIN RESEARCH; BRAIN BEHAVIOUR AND EVOLUTION; ANNUAL REVIEWS IN NEUROSCIENCE; JOURNAL OF NEUROSCIENCE; EUROPEAN JOURNAL OF NEUROSCIENCE; JOURNAL OF EXPERIMENTAL PSYCHOLOGY; JOURNAL OF COMPARATIVE PSYCHOLOGY; AMERICAN JOURNAL OF PRIMATOLOGY; INTERNATIONAL JOURNAL OF PRIMATOLOGY; AMERICAN JOURNAL OF PHYSICAL ANTHROPOLOGY; CAHIERS DE PSYCHOLOGIE COGNITIVE; SCIENCE. BOOKS: THE SENSORY HAND. VERNON B. MOUNTCASTLE. THE NEURONAL AND BEHAVIORAL ORGANIZATION OF GOAL-DIRECTED ACTIONS. MARC JEANNEROD. PERSPECTIVES OF MOTOR BEHAVIOUR AND ITS NEURAL BASIS.