

Curriculum Vitae – Assoc. Prof. Daniel Smutek, M.D., M.Sc., Ph.D.

Appointments

2012-Present ENDODIAB, Ltd., Private clinic for endocrine diseases and diabetes mellitus , Prague

Owner and Head Physician

2002-2012 and 1998-2001 3rd Department of Medicine, General Faculty Hospital, Prague

2002-Present Physician, Specialist in internal medicine and endocrinology and in thyroid gland ultrasound diagnostics (*since 2007 part time*)

1998-2001 Physician, Education in internal medicine

1999-Present Medical Faculty, Charles University, Prague

2008-Present Associate Professor (lecturing medical informatics and internal medicine subjects, supervising PhD students) (*since 2007 part time*)

2004-2008 Assistant Professor (except internal medicine lecturing also subjects „Medical Informatics“ and „Computer support for medical diagnostics and therapy“) (*since 2007 part time*)

2002-2004 and 1999-2001 Lecturer of subjects „Medical Informatics“ and „Computer support for medical diagnostics and therapy“

1999-2004 Administrator of faculty web pages

2007-Present Parexel International

11/2013 –Present **Senior Medical Director** (responsibilities as listed below plus acting as a global medical lead in different clinical studies, co-Leader of the Endocrine/Metabolism Therapeutic Area (TA), experience with Endpoint management and cooperation with Clinical Endpoint Committees (CEC), providing advice and support for Data Monitoring Committees (DMC), Analysis of study data and provide support for the preparation of clinical protocols, integrated clinical and statistical summary reports, journal articles, and other documents for clients/sponsors and other PAREXEL divisions, global Medical Lead in a large Type 2 Diabetes Mellitus program (800 sites, > 4000 subjects), EU Medical Lead for Thyroid Cancer study (Ph III))

01/2010 – 10/2013 Medical Director

10/2007-12/2009 Assoc. Medical Director (leading medical teams for supporting of clinical trials Phase II-IV in endocrinology, diabetology, obesitology and internal medicine)

2007-09/2007 Medical Advisor (medical support of clinical trials Phase II-III in endocrinology, diabetology, obesitology and internal medicine)

1995-2001 The Library of Medical Students' Association; Director of the Library; System Administrator of the librarian computer network and the librarian BBS

1993-2000 Tradeinvest Corp.; General computer and networking consultant

1996-1997 Medisoft. Inc. (medical software); Adviser for medical software development

1996 Georgia Air Praha; Steward

1993-1996 Anatomical Institute of the Medical Faculty; Student Lecturer and Dissection Assistant

1990-1992 ICOM Ltd. (software consulting); Teaching computer systems, software

International Experience

2005, 2006 Tokyo University of Tech.&Agr., Graduate School of Bio-Applications and Systems

Engineering, Tokyo, Japan (Prof. H. Kobatake). In total eight months at postdoctoral post: Intelligent Assistance in Diagnosis of Multi-dimensional Medical Images (Simultaneous Segmentation of Multiple Organs in Multi-dimensional Medical Images). The research was conducted as part of Grant-in-Aid for Scientific Research on Priority Areas from the Ministry of Education, Sports, Culture, Science and Technology, Japan (refer to <http://www.future-cad.org/fcad/02/index02.htm> for extended information).

2002 VTT Information Technology, Human Interaction Technologies, Tampere, Finland (Eng J. Lötjönen)

Nine months postdoctoral fellowship: Medical Imaging (segmentation of 4D heart MRI images). The research was conducted as part MUKUVA (Multimodal Image Processing) Project, with concentration on on rigid and elastic matching and transformation of 3D multimodal medical images (refer to <http://www.vtt.fi/te/research/tte5/tte53/mukuva-en.html> for extended information).

2001-2002 University of Dublin, Trinity College, Ireland (Professor Jane B. Grimson)

Nine months postdoctoral fellowship: Interdisciplinary research in Health Informatics: novel representations, and automation of clinical guidelines using distributed object technology. The research was conducted as part of Medilink, an Irish national research programme in Health Informatics (refer to <http://www.cs.tcd.ie/medilink> for extended information).

2000 University of Warwick, Coventry, United Kingdom (Dr Tardi Tjahjadi, Professor K.R. Godfrey)

Four months of research at the Image Processing and Expert System Laboratory, School of Engineering, concerning Computer Analysis of Medical Images

1996 Universiti Kebangsaan Malaysia, Kuala Lumpur, Malaysia (Professor Freda A. Meah)

Three weeks of clinical education at the Department of General and Endocrine Surgery

Education

- 2012 Postgraduate professional examination in Diabetology** at Medical Faculty, Charles University, Prague, Czech Republic (recognized as **professional specialization** by Ministry of Health)
- 2008 Associate Professor in Medical Informatics** (doc.) at Medical Faculty, Charles University, Prague, Czech Republic; Theme: Texture Analysis in Medical Imaging
- 2006 Accredited as professional specialist in Internal Medicine** (Ministry of Health)
- 2005 Postgraduate professional examination in Endocrinology** at Institute for Postgraduate Medical Education, Prague, Czech Republic (recognized as **professional specialization** by Ministry of Health)
- 2003 Ph.D. in biomedicine (medical biophysics)** at Medical Faculty, Charles University, Prague, Czech Republic; Thesis: Computer Analysis of Texture of Sonographic Images of Thyroid Gland Parenchyma
- 2001 Postgraduate professional examination in Internal Medicine** at Institute for Postgraduate Medical Education, Prague, Czech Republic
- 2001 Master of Science Degree in Economics** (Ing.) at Faculty of Economics and Public Administration, University of Economics, Prague, Czech Republic; Thesis: Health Care Financing in Czech Republic and Other Advanced Countries; Specialisation - major: Economic Policy; - minor: Environmental Economics
- 1998 Doctor of Medicine Degree** (MUDr.) at Medical Faculty, Charles University, Prague, Czech Republic

Selected Research Projects

- 2007 – 2009** Participation in project *Genový polymorfismus zánětlivých cytokinů jako rizikový faktor pooperačních komplikací*. Principal investigator: Pavel Maruna, I.LF UK, Medical Faculty of the Charles University, Prague, Czech Republic. Grant NR/9223-3 of the Ministry of Health of the Czech Republic.
- 2004 – 2007** Principal investigator in *Artificial intelligence methods in diagnostics from medical images*. Grant of Czech Academy of Science IET101050403.
- 2005 – 2007** Co-investigator in *Study of certain cellular and humoral regulatory mechanisms in organ-specific autoimmune disorders*. Principal investigator: Eliška Potluková, Medical Faculty of the Charles University, Prague, Czech Republic. Grant NR/8352-3 of the Ministry of Health of the Czech Republic.
- 2004 - 2006** Co-investigator in *Autoimmune thyroid diseases in women with breast and colorectal cancer*. Principal investigator: Jan Jiskra, Medical Faculty of the Charles University, Prague, Czech Republic. Grant NR/8130-3 of the Ministry of Health of the Czech Republic.
- 2003 – 2005** Co-investigator in *Supporting diagnostics of the diffuse parenchymal processes by texture analysis of ultrasound images*. Principal investigator: Petr Sucharda, Medical Faculty of the Charles University, Prague, Czech Republic. Grant NO/7742-3 of the Ministry of Health of the Czech Republic.
- 2003 – 2004** Participation in *The European Centre for Medical Informatics, Statistics and Epidemiology – Cardio* and administration of the project in a co-holder organisation (Charles University 1st Faculty of Medicine). The research centre has been set up with the support of the Ministry of Education, Youth and Sport by the project LN00B107. The main activities of centre are aimed to the field of applied informatics and statistics in healthcare. The centre is engaged in new approaches of designing and using of electronic health documentation, development of telemedicine applications, intelligent systems for gaining information from medical databases and for decision support, standardisation methods of medical indicators in a therapeutic care and in other standardisation approaches.
- 2002** Participation in *MUKUVA (Multimodal Image Processing) Project*. Principal investigator: Jyrki Lötjönen, VTT Information Technology, 33101 Tampere, Finland. TEKES (the National Technology Agency finances research and development projects of companies and universities in Finland) funded research project.
- 2001-2004** Participation in *Biomedical Systems Modelling and Its Utilization in Interpretation of Experimental Results of Basic Research, Clinical Practice and Modern Medical Education Project*. Principal investigator: Jiri Kofranek, Medical Faculty of the Charles University, Prague, Czech Republic. Project CEZ:J13/98:111100008 of Ministry of Education, Youth and Sport of the Czech Republic.
- 2001-2002** Participation in *MediLink Project*. An inter-institutional, interdisciplinary research programme in Health Informatics. Funded under the Higher Education Authority's Programme for Research in Third Level Institutions, Ireland.
- 1999-2001** Participation in *Texture Analysis of Sonographic Images for Endocrinopathies and Metabolic Diseases*. Principal investigator: Petr Sucharda, Medical Faculty of the Charles University, Prague, Czech Republic. Grant NB 5472-3 of the Ministry of Health of the Czech Republic

Other

Languages: Active: **English** (IELTS 7.5 from 9 points), **Spanish, Russian, Slovak**; Passive: German
Proficient in the use of computers (especially in computer communication), clean driving license; listed in Marquis Who's Who in the World

Personal

Born in 1974, married, 2 children (2005 and 2008)

Hobbies: cycling, skiing, mountain hiking, swimming, tourism

Membership in Scientific Societies, in Programme Committees, Editorial Functions

- Member**
- European Society of Endocrinology
 - Czech Society of Endocrinology (Czech Medical Society)
 - Czech Society for Ultrasound in Medicine and Biology
 - Czech Society of Biomedical Engineering and Medical Informatics (Czech Medical Society)
 - Czech Scientific Board for Health Informatics
 - Czech Scientific Board for Imaging Methods in Medicine
 - Steering Committee of Charles University Grant Agency
- Session Chair**
- Methods and Systems in Telehealth (International Conference on Telehealth), 2006
 - Medical Informatics Education Section at Symposium on Biomedical Informatics and Biomedical Statistics Education (International Joint Meeting Euromise), 2004
 - Image Processing and Applications at Signal and Image Processing Conference (SIP 2004)
 - Wireless and Mobile Computing Section at Winter International Symposium on Information and Communication Technologies, 2004
- Reviewer**
- journals: Ultrasound in Medicine and Biology
 - European Radiology
 - IEEE Transactions on Information Technology in Biomedicine
 - Computers in Biology and Medicine
 - European Journal of Biomedical Informatics
 - science foundation: EU Horizon 2020, Personalising Health and Care (H2020-PHC)
 - EU 7th Framework Programme (FP7) -ICT Virtual Physiological Human (VPH)
 - EU 7th Framework Programme (FP7) - FP7-PEOPLE
 - Fund for Universities Development (FRVS)
 - Life Long Learning programme/Erasmus Networks at Education, Audiovisual and Culture Executive Agency (European Commission)
 - conferences: International Conferences on Computing, Communications and Control Technologies (CCCT 2004,5,6), International Conference on Natural Computation (ICNC'05), International Conference on Fuzzy Systems and Knowledge Discovery (FSKD'05)

References

- Thomas L. Shook MD FACC FSCAI, Corporate Vice President, Worldwide Medical Affairs, PAREXEL International, 195 West Street, Waltham, MA 02451, US; Phone: +1-781-434-5078 Executive Assistant +1-781-434-5722 email: Thomas.Shook@parexel.com
- Prof. Jane Grimson, BA, BAI, MSc, PhD, FIEI, FBCS, FICS, FTCD, CEng, Head of Dept. of Computer Science at the Trinity College, Dublin, Department of Computer Science, Trinity College, Dublin 2, Ireland; Phone: +353 1 6081780 Fax: +353 1 6772204 e-mail: jane.grimson@cs.tcd.ie
- Prof. Štěpán Svačina, MD, PhD, MBA, Head of Department of Medicine, Charles University, U nemocnice 1, 128 08 Praha 2, Czech Republic; Phone: +420 224 962 921 Fax: +420 224 919 780 e-mail: svacinas@lfl.cuni.cz
- Prof. Akinobu Shimizu, PhD., Head of computer laboratory, Tokyo University of Agriculture and Technology, Graduate School of Bio-Applications and Systems Engineering, 2-24-16 Naka-cho, Koganei-shi, Tokyo 184-8588, Japan; Phone +81423887438 Fax: +81 423887438 e-mail: simiz@cc.tuat.ac.jp

More references on request

Publications

42 original articles in journals with impact factor or in reviewed proceedings; 12 articles in journals and in conference proceedings, 45 abstracts in conference proceedings, and 1 chapter in book. Science Citation Index > 100.

List of publications on request

Prague, 24th July 2014