Teaching portfolio

1. Teaching CV: A list of any lecturing and supervision tasks, including specification of academic fields, scope, level (bachelor, master, continuing education, PhD) as well as any external examiner tasks.

Course responsible at undergraduate level in a number of curricula at Aalborg University.
Sports Science (Ergonomics)
Sports Technology (Measurements techniques and signal processing, Applied technology and Measurement Techniques in Sports, Digital Processing of Biomechanical Signals)
Biomedical Engineering and Informatics (Introduction to Biomedical Engineering, Bioinstrumenteringsteori og laboratorie-teknikker, Måling, behandling og præsentation af biologiske signaler, Systemarkitektur og integration, Bio-fluid mechanics, Man-machine interaction, Biomechanical measurement techniques and analysis, Sports biomechanics and ergonomics, Sports Biomechanics, ergonomics and rehabilitation)
Product Design and Psychology (Applied Biomechanics, Ergonomics)
Clinical Science and Technology (Rehabilitation technologies in theory and practice).

Supervision of undergraduate students.
Sports Science (Fresh-man year (1st and 2nd semester), Bachelor project (6th semester)
Biomedical Engineering and Informatics (Fresh-man year (1st and 2nd semesters), Bachelor project (3rd and 4th semester), Master (7th, 8th, 9th and 10th semester)

Supervision of Bachelor students: CH Andersen, HS Barsøe, PV Bak, MR Behrndt, A Emanuelsen, MK Festersen, LC Fogh, RM Gertsen, M Glud, H Gould, IS Hansen, M Hansen, F Heinen, HI Hjartarson, JR Jacobsen, N Jakobsen, D Jensen, MH Jensen, T Jensen, LB Johansen, SF Jørgensen, J Kelberg, JR Kirkegaard, R Kjeldbjerg, C Klug, RR Kristensen, SD Larsen, M Laursen, S Lohse, MH Nielsen, NJ Nedergaard, CF Nordström , NK Olesen, SF Rasmussen, LL Rødbro, M Schousboe, K Skyum, S Sloth, BS Sørensen, JF Sørensen, SSR Sørensen, R Tran, CM Valbak, R Vandvig, T Vigter.

Supervision of Master students: KS Andersen, R Balaguier, RLJ Bødker, BH Christensen, MJ Dahl, BK Flaskager, BP Høj, TI Johansen, MV Kristiansen, X Li, T Madsen, J Svendsen, K Mayntzhusen, SK Melin, PK Mikkelsen, LT Nørgaard, K Rose-Dulcina, EK Søndergaard, K Søndergaard, NG Søndergaard, JS Sørensen, A Teklemariam, S Vangsgaard.

Course responsible/lecturer at post-graduate level.
Bio-signal processing I & II, Bio-signal variability: Concepts and applications, From Motion Measurements to Modeling in Biomedical Research, Neurobiology of the pain system, Nociception and motor control, Overload injuries, Physiological effects and health effects of physical activity/inactivity at work, First and Second annual symposium on physical activity and human performance.

Supervision of post-graduate students.
P Bajaj, R Balaguier, M Brandt, MV Kristiansen, GK Jeppesen, R Polianskis, A Romanielli, P Bajaj, HY Ge, H Nie, X Li, R Verma, A Samani, M Sardroodian, A Binderup, J Svendsen, M Hosseinzadeh, S Vangsgaard, M Villumsen.

Chairman/Adjudication committee to PhD defences: CH Andersen, I Cantarero-Villanueva, N Cronin, D Domkin, J Fernandez-Carnero, C Fernandez-Lao, F Gravesen, L Heales, N Hedayatpour, T Heilskov-Hansen, H Hassanlouei, MD Jacobsen, HK Korsapati, M Kurstjens, KV Lomond, R Lontis, JM Delfa de la Morena, Q Mourcou, OF do Nascimento, R Polianskis, A Pradels, DC Ribeiro, MH Rose, SAK Sami, RL Ryder, ET Würtz, W Yuling.

Board member of the Research Education Program in Sport Sciences / Forskeruddannelsesprogrammet i idræt (REPS) 2010-2011. National network for research in Sport sciences.

2. Study administration: A list of any study administration tasks, e.g. study board membership, head of studies or semester or course coordinator, accreditation, etc.

Development of electronic material (lectures and exercises) for all the above mentioned courses.
Material development for bio-fluid dynamics course (undergraduate students in Biomedical Engineering and Informatics). Beside the access to all lecture notes, I have authored two book chapters as integrals part of the teaching materials for both undergraduate students in Biomedical Engineering and Informatics, Sports Science and Sports Technology. See my reference list.
I have played a major role in developing and writing the curriculum of the Biomedical Engineering and Informatics education (BSc. and MSc. levels). More recently, I developed and wrote the curriculum of the MSc. in Sports Technology. I was a member of the study board of Health, Technology and Sports Science at Aalborg University (2009-2011).
Development of Bachelor and Master Curricula (Biomedical Engineering, Sports Science and Sports Technology).

3. University pedagogy qualifications: A list of any completed courses in university pedagogy, PBL courses, workshops, academic development projects, collegial guidance and supervision, etc.

Qualified Pedagogical Profile (Centre for University Teaching and Learning, Aalborg University, 2001)
PhD supervisor courses completed

4. Other qualifications: Conference attendance, editorials, presentations, etc. relating to education, 'University Teaching Day', etc.

Reviewer for the European Young Investigator Award (EURYI), Natural Sciences and Engineering Research Council of Canada, Tenure evaluation (Mc Gill University, Canada).
Scientific board member of the French National Institute for Risk and Security (INRS)
Member of the editorial board: Journal of Electromyography and Kinesiology, ISRN Biomedical Engineering, Brazilian Journal of Physiotherapy.
Member of the American College of Sports Medicine, Danish Engineers Society, European College of Sport Science, International Ergonomics Society, ICOH Scientific Committee on Musculoskeletal Disorders, International Society for Electromyography and Kinesiology, Selskab for Arbejdsmiljø.

Reviewer for:
Applied Ergonomics, Archives of Physical Medicine and Rehabilitation, BMC Musculoskeletal Disorders, Clinical Biomechanics, Clinical Journal of Pain, Clinical Biomechanics, Clinical Neurophysiology, Computer Methods and Programs in Biomedicine, European Journal of Applied Physiology, Journal of Athletic Training, Ergonomics, European Experimental Brain Research, Gait & Posture, Human Factors, Human Performance, Human movement Science, IEEE-BME, International Archives of Occupational and Environmental Health, Jounal of Applied Biomechanics, Jounal of Biomechanics, Journal of Electromyography and Kinesiology, Journal of Musculoskeletal Pain, Journal of NeuroEngineering and Rehabilitation, Journal of Oral Rehabilitation, Journal of Neuroscience, Journal of Neuroscience Methods, Journal of Pain, Journal of Science and Medicine in Sport, Journal of Sport Science & Medicine, Meat Science, Medical & Biological Engineering & Computing, Medical Engineering and Physics, Medicine & Science in Sports & Exercise, Motor Control, Muscle & Nerve, Neuroscience Letters, Orthodontics & Craniofacial Research, Osteoarthritis and Cartilage, Pain, Physiological Measurement, PLOSone, Scandinavian Journal of Work Environment and Health, Sports Medicine.

Keynote speaker at national/international conferences:
Biomechanics and Motor Control in Exercise Physiology (November, Copenhagen, Denmark, 2015)
Moving on with pain II (November, Aalborg, Denmark, 2015)
Gender, Work & Health Summer School (April, Canada, 2014)
Golden lecture - Wroclaw University (May, Poland, 2012)
Golden lecture - Wroclaw University (May, Poland, 2011)
Global Year against Musculoskeletal Pain (Mainz, Germany, 2010),
Når Bevægelse gør ondt – Gigtforeningen (Århus-København, Denmark, 2010)
Société de Biomécanique (Compiègne, France, 2008)
Fundamental of Musculoskeletal Pain (Aalborg, Denmark, 2007)
Nordic Conference on Movement Science (Trondheim, Norway, 2006),
Recent developments and applications in multi-channel surface EMG techniques (February, Umeå, Sweden, 2006)
Dansk Selskab for Medicinsk Fysik Symposium (March, Odense, Denmark, 2006)
French association for the study of pain (Nantes, France, 2006).
Pijn revalidatie congress (December, Enschede, The Netherlands, 2005)
Forskningsresultater og kliniske konsekvenser (November, Aalborg, Denmark, 2005)
V International days of Physiotherapy (May, Wroclaw, Poland, 2005)

Invited speaker/speaker/committee member at national and international conferences:
Nordisk seminar om tekniske feltmålinger af fysisk aktivitet og sedentaristisk adfærd (December, Copenhagen, Denmark, 2016)
Ninth International Scientific Conference on Prevention of Work-Related Musculoskeletal Disorders (June, Toronto, Canada, 2016)
IEA XIXth World Congress on Ergonomics (August, Melbourne, Australia, 2015)
NES/ODAM 2014 46th Annual Nordic Ergonomics Society (August, Copenhagen, Denmark)
ISEK XXth Congress of the International Society for Electrophysiology and Kinesiology (July, Rom, Italy, 2014)
Idrætsmedicinsk Årskongres, January 30- February 1, Kolding, Denmark
Eigth International Scientific Conference on Prevention of Work-Related Musculoskeletal Disorders (July, Busan, South Korea, 2013)
17th Annual Congress of the European College of Sports Science (Brussel, Belgium, 2012)
ISEK XVIIIth Congress of the International Society for Electrophysiology and Kinesiology (June, Aalborg, Denmark, 2010)
Seventh International Scientific Conference on Prevention of Work-Related Musculoskeletal Disorders (August–September, Angers, France, 2010)
29th ICOH International Congress on Occupational Health, (March, Cape Town, South Africa, 2010)

ISEK XVIIth Congress of the International Society for Electrophysiology and Kinesiology (June, Niagara Falls, Canada, 2008)
12th World Congress on Pain (August, Glasgow, Scotland, 2008)
Sixth International Scientific Conference on Prevention of Work-Related Musculoskeletal Disorders (August, Boston, USA, 2007)
ISEK XVIth Congress of the International Society for Electrophysiology and Kinesiology (June-July, Torino, Italy, 2006)
14th European Society of Biomechanics conference (July, 's-Hertogenbosch, The Netherlands, 2004)
ISEK XVth Congress of the International Society for Electrophysiology and Kinesiology (Jjune, Boston, USA, 2004)
International Ergonomics Association, 15th Triennial Congress (August, Seoul, Korea, 2003)
Scandinavian Association for the Study of Pain, 25th Annual Meeting (April, Aalborg, Denmark, 2002)
ISEK XIVth Congress of the International Society for Electrophysiology and Kinesiology (June, Vienna, Austria, 2002)
10th World Congress on Pain (August, San Diego, USA, 2002)
2nd Procid Symposium - Prevention of Muscle Disorders in Computer Users (March, Göteborg, Sweden, 2001)
Fourth international scientific conference on prevention of work-related musculo-skeletal disorders (September-October, Amsterdam, The Netherlands, 2001)
26th International Congress on Occupational Health (August-September, Singapore, 2000)
Future application of electromyography. Seniam 4 (September, 's-Hertogenbosch, The Netherlands, 1999)
3rd International Scientific Conference on Prevention of Work-Related Musculoskeletal Disorders - 13th International Symposium on Epidemioogy in Occupational Health (September,Helsinki, Finland, 1998)
II Congress of the E.F.I.C.(September, Barcelona, Spain, 1997)
Scandinavian Association for the Study of Pain, 20th Annual Meeting (April, Århus, Denmark, 1997)
Fourth international seminar on current trends in research on work-related musculoskeletal disorders and their prevention (Saltsjöbaden, Sweden, 1997)
8th World Congress on Pain (August, Vancouver, Canada, 1996)
25th International Congress on Occupational Health (Stockholm, Sweden, 1995)
Swedish-Danish symposium on muscle pain (Linköping, Sweden 1995)

5. Teaching activity development and teaching materials: A list of any contributions to the development of new modules, teaching materials, study programmes, e-learning, collaboration with external business partners, etc.

Beside lectures materials, I act actively at developing quizzes, concepts projects, mini-projects, question hour, guest lecture, introductory lecture, laboratory test, open access lectures, self-study, topical seminar and, cases. Meta-projects across curricula are also planned.
A good lecturer can facilitate and speed up the learning process. To achieve such a goal, the lecturer should keep the logical chain of topics that he/she is teaching and build a logical link between the new information and students' knowledge. The teacher should provide illustrative examples which emphasize the application of theoretical knowledge. The aim should be to keep the lecture as interactive as possible and help the students to fetch their old information and process them while they are faced with new information. To improve the interaction in a course, being open minded but watchful towards new teaching assistive tools is a necessity. A way to attract attention is asking questions to address the topic instead of just explaining it in words. At the personal level, the teacher's positive attitude toward the students is crucial as well as his/her engagement and enthusiasm. Moreover keeping a dynamic presentation of the given subject using changes in teaching modes is a way to reinforce student motivation.

6. Teaching awards you may have received or been nominated for.

Best teacher nomination at the school of Health, Technology and Sports Science in 2011 (quotation in Danish):

"Pascal har gjort et stort og godt stykke arbejde i at få 6. semester idræt og 1. semester kandidat i idrætsteknologi til at fungere godt og smertefrit, da hans rolle har været semesterkoordinater. Der har været styr på skema, andre undervisere samt hans egen undervisning har været godt planlagt/ struktureret samt spændende. Han har undervist i en god kombination af teori og praksis. Pascal har formået at skabe relevans mellem fagene på disse semestre og relevans for semestertemaet."

7. Personal reflections and initiatives: Here you may state any personal deliberations as regards teaching and supervision, any wishes and plans for further pedagogic development, plans for following up on feedback/evaluations from students, etc.

The experience within PBL has been developed during project supervision at Aalborg University using for example 6-H model. The extensive supervision among the various levels of undergraduate and post-graduate level ensures an high level of expertise in PBL supervision. Some of the important competences encompass: (i) drawing students' attention to the challenges that they may face with and facilitating their workflow, (ii) consulting the students whenever they face with a problem, and have difficulty to resolve it, (iii) encouraging them to come up with their own ideas to tackle the problem and highlighting probable fallacies of their solutions and, (iv) paying attention to the individual differences between the students. More importantly, the ownership of the project is an extremely motivating factor for the students.

8. Any other information or comments.

Type your answer here...