






## Curriculum vitae

### Thilo Schuler, MD & MHInf

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I am a practicing medical doctor with 10 years' experience in Radiation Oncology and long track record of successful implementation of digital health projects driving innovation in clinical research and practice. Feature projects are the department-wide electronic patient-reported outcome (ePRO) survey roll out and leading innovative wearable research. My passion to improve cancer care with digital health has led me to pursue a PhD. It focuses on research into the translation of patient-generated health data in routine oncology care to optimally support cancer patients and their families.

#### QUALIFICATIONS

Primary medical degree	<b>German state examination in medicine (MD)</b> <i>Albert-Ludwigs-University Freiburg, Germany</i> <ul style="list-style-type: none"> <li>● Overall final mark of 2.0 (max. 1, min. 6) – Top 20%</li> <li>● Graduated Nov 2008</li> </ul>
AHPRA registration number	<b>MED0001634180 (General medical registration in Australia)</b>
Other qualification	<b>Master of health informatics (MHInf)</b> <i>Central Queensland University, Australia</i> <ul style="list-style-type: none"> <li>● Program established and led by Prof Evelyn Hovenga</li> <li>● Weighted Grade Point Average (WGPA): 6.42 (max. 7) - Distinction</li> <li>● Graduated Jul 2009</li> </ul>

#### CLINICAL TRAINING

Feb 2015 – Jan 2025	<b>Radiation Oncology Trainee at Royal North Shore Hospital in Sydney</b> <ul style="list-style-type: none"> <li>● Accredited position as part RANZCR training program</li> <li>● Including 6-month rotation to Westmead Hospital (Feb-Jul 2016) and 6-month rotation to Central Coast Cancer Centre in Gosford (Feb-Jul 2020)</li> <li>● Involved in department's clinical research and IT projects <ul style="list-style-type: none"> <li>- Established ePRO survey infrastructure and leads interdisciplinary ePRO team (&gt;20k ePROs collected since 2019 both in routine care and for 3 in-house RCTs)</li> <li>- Part of simulation-free RT team that pioneered this novel and patient-centred palliative RT technique (lead author of clinical publications)</li> </ul> </li> <li>● From February 2017: full-time role split between part-time training and research (see PhD section below)</li> </ul>
Aug 2014 – Jan 2015	<b>Palliative Medicine Registrar at Western Hospital in Melbourne</b> <ul style="list-style-type: none"> <li>● Temporary maternity leave cover position working for two consultants as part of consult service</li> </ul>
Feb 2014 – Jul 2014	<b>Medical Registrar at Wollongong Hospital</b>
Jan 2013 – Feb 2014	<b>Senior Resident Medical Officer (SRMO) at Wollongong Hospital</b> <ul style="list-style-type: none"> <li>● Including oncology rotation – Tablet Device PRO project (see 'Health IT Experience' &amp; 'Publications' sections) was demonstrated to the department</li> </ul>
Jul 2011 – Jan 2013	<b>Resident Medical Officer (RMO) at Wollongong Hospital</b>
Mar 2007 – Feb 2008	<b>Internship (German "Praktisches Jahr")</b> <ul style="list-style-type: none"> <li>● General medicine - <i>Lucerne Cantonal Hospital of Internal Medicine Sursee, Switzerland</i></li> <li>● Dermatology (elective) - <i>University Hospital Zurich, Switzerland</i></li> <li>● General and vascular surgery - <i>City Hospital Karlsruhe, Germany</i></li> </ul>

## HEALTH IT EXPERIENCE

Mar 2017 – ongoing	<b>PhD in Clinical Informatics (part-time)</b> <i>Centre of Health Informatics (CHI) at the Australian Institute of Health Innovation (AIHI), Macquarie University.</i> <u>PhD Topic:</u> The role of patient-generated health data in data-driven routine cancer care <u>Supervisor:</u> A/Prof Blanca Gallego Luxan (Leader clinical analytics and machine learning at the Centre for Big Data Research in Health, UNSW); <u>Co-supervisors:</u> Prof Enrico Coiera (Director of CHI), Prof Thomas Eade (Director of Research Radiation Oncology at Northern Sydney Cancer Centre at Royal North Shore Hospital)
Jan 2013 – May 2014	<b>Collecting Patient Reported Outcomes (PROs) with a Tablet Computer</b> Successful implementation of a prototype, which imports PROs into the Oncology Information System MOSAIQ® (see publication no. 14 below).
Feb 2011 - Jun 2011	<b>National E-Health Transition Agency (NEHTA), Brisbane</b> Application of clinical knowledge to create content models for the Personally Controlled Electronic Health Record (PCEHR) project
Aug 2009 – Jun 2010	<b>MCS Parametrix AG, Switzerland (now CompuGroup Medical Schweiz AG)</b> Project manager at a large clinical information system vendor in Switzerland
Mar 2009 – Jul 2009	<b>Swisscom IT Services, Zurich, Switzerland</b> Consultant in the health care division advising on IT-enabled health care processes

## SELECTED PUBLICATIONS

- Schuler T**, Roderick S, Wong S, Kejda A, Grimberg K, Lowe T, et al. Real-World Implementation of Simulation-Free Radiation Therapy (SFRT-1000): A Propensity Score-Matched Analysis of 1000 Consecutive Palliative Courses Delivered in Routine Care. *International Journal of Radiation Oncology, Biology, Physics* [Internet]. 2024 Sep 29 [cited 2024 Dec 10];0(0). Open access full text available from (DOI): <https://doi.org/10.1016/j.ijrobp.2024.09.041> [also presented at ASTRO 2024 as an oral presentation].
- Schuler T**, King C, Matsveru T, Back M, Clark K, Chin D, Lilian R, Gallego B, Coiera E, Currow D. Wearable-Triggered Ecological Momentary Assessments Are Feasible in People With Advanced Cancer and Their Family Caregivers: Feasibility Study from an Outpatient Palliative Care Clinic at a Cancer Center. *Journal of Palliative Medicine*. 2023 Jul;26(7):980–5.
- Schuler T**, Currow D, Clark K, Back M. Letter to the Editor: Sleep Disturbances in People with Advanced Cancer and Their Informal Caregivers: A Digital Health Exploration. *Journal of Palliative Medicine*. 2022 Jun 1;25(6):851–2.
- Schuler T**, Wong S, Bergamin S, Hruby G, Back M, Roderick S, et al. In Regard to Roos et al. *International Journal of Radiation Oncology\* Biology\* Physics*. 2022 Jan;112(1):260–1.
- Schuler T**, King C, Back M, Doria T, MacLeod P, Patterson P, et al. Optimising community service use with ePRO-based screening during routine radiation oncology care. In: *Asia-Pacific Journal of Clinical Oncology*. Sydney; 2021. p. 23–72. (**Best oral poster award**).
- Schuler T**, Back M, Hruby G, Carroll S, Jayamanne D, Kneebone A, et al. Introducing Computed Tomography Simulation-Free and Electronic Patient-Reported Outcomes-Monitored Palliative Radiation Therapy into Routine Care: Clinical Outcomes and Implementation Experience. *Advances in Radiation Oncology*. 2021 Mar 1;6(2).
- Schuler T**, Kneebone A, Hruby G, van Gelder R, Hunter J, Eade T. Driving innovation through electronic PROMs in Radiation Oncology routine care. In: *Journal of Medical Imaging and Radiation Oncology*. 71th Virtual RANZCR ASM 2021. doi: 10.1111/1754-9485.13303.
- Schuler T**, Hruby G, Eade T. Patient-reported outcome measures (PROMs) in routine care palliative radiotherapy. *Radiotherapy and Oncology*. Radiother Oncol. 2021 Jan;154:e10–e11. doi: 10.1016/j.radonc.2020.06.002.
- van Gysen K, O'Toole J, Le A, Wu K, **Schuler T**, Porter B, et al. Rolling out RapidPlan: What we've learnt. *Journal of Medical Radiation Sciences*. 2020;67(4):310–7.
- Schuler T**, Kipritidis J, Eade T, Hruby G, Kneebone A, Perez M, et al. Big Data Readiness in Radiation Oncology: An Efficient Approach for Relabeling Radiation Therapy Structures With Their TG-263 Standard Name in Real-World Data Sets. *Advances in Radiation Oncology*. 2019 Jan 1;4(1):191–200.
- Schuler T**, Hruby G, Kwong C, Brown, C, Clarke S, Gallego B, et al. Quantitative results from the Tracker Study: feasibility of real-time activity and weight monitoring during routine care of oncology patients. The Royal Australian and New Zealand College of Radiologists (RANZCR), 70th Annual Scientific Meeting, 17–20 October 2019, Auckland, New Zealand (in JMIRO 2019). 2019;63(S1):89–102.
- Schuler T**, Liu T, Lamoury G, Morgia M, Carroll S, Hruby G, et al. Comparing comprehensiveness and accuracy of data between radiotherapy databases for breast and prostate cancer at the same institution. In: The Royal Australian and New Zealand College of Radiologists (RANZCR), 69th Annual Scientific Meeting, 25–28 October 2018, Canberra, Australia (in JMIRO 2018).
- Schuler T**, Podreka A, Guo L, Kwong C, Hruby G, Eade T. Completeness of routinely collected ePROs in 3 radiation oncology patient groups. In: The Royal Australian and New Zealand College of Radiologists (RANZCR), 68th Annual Scientific Meeting in *Journal of Medical Imaging and Radiation Oncology*. [https://doi.org/10.1111/1754-9485.1\\_12656](https://doi.org/10.1111/1754-9485.1_12656); 2017. p. 53–4.
- Schuler T**, Miller AA. PROsaic: A Smart Device-Based and EMR-Integrated System for Patient-Reported Outcome Measurement in Routine Cancer Care. *J Radiat Oncol Inform*. 2014 Jun 19;6(1):111–31.