

## Simon John Christoph Soerensen

- Ph.D. Student in Epidemiology and Clinical Research, admitted Autumn 2021
- Resident in Urology

### Publications

---

#### PUBLICATIONS

- **Facility-Level Variation in Nephrology Care among Veterans after Urinary Stone Diagnosis.** *Kidney360*  
Thomas, K., Ganesan, C., Liu, S., Thomas, I. C., Montez-Rath, M. E., Christoph Soerensen, S. J., Chertow, G. M., Leppert, J. T., Pao, A. C.  
2024
- **Pesticides and prostate cancer incidence and mortality: An environment-wide association study.** *Cancer*  
Soerensen, S. J., Lim, D. S., Montez-Rath, M. E., Chertow, G. M., Chung, B. I., Rehkopf, D. H., Leppert, J. T.  
2024
- **Variation in Urology Care after Urinary Stone Surgery among Veterans at High-risk for Recurrence.** *Urology*  
Ganesan, C., Shahzad, S. R., Thomas, I. C., Montez-Rath, M. E., Soerensen, S. J., Chertow, G. M., Pao, A. C., Leppert, J. T.  
2024
- **An Automated Electronic Health Record Score to Estimate Length of Stay and Readmission in Patients Undergoing Radical Cystectomy for Bladder Cancer.** *The Journal of urology*  
Christoph Soerensen, S. J., Schmidt, B., Thomas, I., Montez-Rath, M. E., Thong, A. E., Prado, K., Shah, J. B., Skinner, E. C., Leppert, J. T.  
2024: 101097JU00000000000004262
- **Trends in pre-biopsy MRI usage for prostate cancer detection, 2007-2022.** *Prostate cancer and prostatic diseases*  
Soerensen, S. J., Li, S., Langston, M. E., Fan, R. E., Rusu, M., Sonn, G. A.  
2024
- **External validation of an artificial intelligence model for Gleason grading of prostate cancer on prostatectomy specimens.** *BJU international*  
Schmidt, B., Soerensen, S. J., Bhambhani, H. P., Fan, R. E., Bhattacharya, I., Choi, M. H., Kunder, C. A., Kao, C. S., Higgins, J., Rusu, M., Sonn, G. A.  
2024
- **Ambient air pollution and urological cancer risk: A systematic review and meta-analysis of epidemiological evidence.** *Nature communications*  
Li, J., Deng, Z., Soerensen, S. J., Kachuri, L., Cardenas, A., Graff, R. E., Leppert, J. T., Langston, M. E., Chung, B. I.  
2024; 15 (1): 5116
- **PREDICTORS OF TREATMENT FAILURE AFTER FOCAL HIGH-INTENSITY FOCUSED ULTRASOUND (HIFU) OF LOCALIZED PROSTATE CANCER**  
Soerensen, S., Sommer, E. R., Zhou, S. R., Rusu, M., Fan, R. E., Sonn, G. A.  
LIPPINCOTT WILLIAMS & WILKINS.2024: E411-E412
- **MUNICIPAL DRINKING WATER CONSTITUENTS AND BLADDER CANCER INCIDENCE: A WATER-WIDE ASSOCIATION STUDY (WWAS)**  
Soerensen, S., Jackson, C., Rehkopf, D. H., Skinner, E. C., Prado, K. B., Chung, B. I., Leppert, J. T.  
LIPPINCOTT WILLIAMS & WILKINS.2024: E584
- **PHYSICIAN DENSITY AND PROSTATE CANCER MORTALITY IN THE US FROM 2011-2020**

- Soerensen, S., Montez-Rath, M. E., Chung, B. I., Rehkopf, D. H., Leppert, J. T.  
LIPPINCOTT WILLIAMS & WILKINS.2024: E1110-E1111
- **PESTICIDES AND PROSTATE CANCER INCIDENCE AND MORTALITY: AN ENVIRONMENTAL WIDE ASSOCIATION STUDY**  
Soerensen, S., Lim, D. S., Montez-Rath, M. E., Chertow, G. M., Chung, B. I., Rehkopf, D. H., Leppert, J. T.  
LIPPINCOTT WILLIAMS & WILKINS.2024: E620
  - **RAPHIA: A deep learning pipeline for the registration of MRI and whole-mount histopathology images of the prostate.** *Computers in biology and medicine*  
Shao, W., Vesal, S., Soerensen, S. J., Bhattacharya, I., Golestani, N., Yamashita, R., Kunder, C. A., Fan, R. E., Ghanouni, P., Brooks, J. D., Sonn, G. A., Rusu, M.  
2024; 173: 108318
  - **Improving Automated Prostate Cancer Detection and Classification Accuracy with Multi-scale Cancer Information**  
Li, C., Bhattacharya, I., Vesal, S., Saunders, S., Soerensen, S., Fan, R. E., Sonn, G. A., Rusu, M.  
edited by Cao, Xu, Rekik, Cui, Z., Ouyang  
SPRINGER INTERNATIONAL PUBLISHING AG.2024: 341-350
  - **Groundwater constituents and the incidence of kidney cancer.** *Cancer*  
Soerensen, S. J., Montez-Rath, M. E., Cheng, I., Gomez, S. L., Oh, D. L., Jackson, C., Li, J., Rehkopf, D., Chertow, G. M., Langston, M. E., Ganesan, C., Pao, A. C., Chung, et al  
2023
  - **Biomarkers for the Detection and Surveillance of Renal Cancer.** *The Urologic clinics of North America*  
Nolazco, J. I., Soerensen, S. J., Chung, B. I.  
2023; 50 (2): 191-204
  - **DETECTION OF CLINICALLY SIGNIFICANT PROSTATE CANCER ON MRI: A COMPARISON OF AN ARTIFICIAL INTELLIGENCE MODEL VERSUS RADIOLOGISTS**  
Soerensen, S., Fan, R. E., Bhattacharya, I., Lim, D. S., Ahmadi, S., Li, X., Vesal, S., Rusu, M., Sonn, G. A.  
LIPPINCOTT WILLIAMS & WILKINS.2023: E103
  - **IMPROVING AUTOMATIC DETECTION OF PROSTATE CANCER ON MRI WITH CLINICAL HISTORY**  
Lim, D. S., Kunder, C., Shao, W., Soerensen, S. J. C., Fan, R. E., Ghanouni, P., To'o, K., Brooks, J. D., Sonn, G. A., Rusu, M.  
LIPPINCOTT WILLIAMS & WILKINS.2023: E768
  - **GROUNDWATER CONSTITUENTS AND THE INCIDENCE OF KIDNEY CANCER**  
Soerensen, S., Montez-Rath, M. E., Cheng, I., Gomez, S., Oh, D. L., Jackson, C., Rehkopf, D., Chertow, G. M., Ganesan, C., Pao, A. C., Leppert, J. T., Chung, B. I.  
LIPPINCOTT WILLIAMS & WILKINS.2023: E880
  - **IMPROVING PROSTATE CANCER DETECTION ON MRI WITH DEEP LEARNING, CLINICAL VARIABLES, AND RADIOMICS**  
Saunders, S., Li, X., Vesal, S., Bhattacharya, I., Soerensen, S. J. C., Fan, R. E., Rusu, M., Sonn, G. A.  
LIPPINCOTT WILLIAMS & WILKINS.2023: E665
  - **The Association of Tissue Change and Treatment Success During High-intensity Focused Ultrasound Focal Therapy for Prostate Cancer.** *European urology focus*  
Khandwala, Y. S., Soerensen, S. J., Morisetty, S., Ghanouni, P., Fan, R. E., Vesal, S., Rusu, M., Sonn, G. A.  
2022
  - **A review of artificial intelligence in prostate cancer detection on imaging.** *Therapeutic advances in urology*  
Bhattacharya, I., Khandwala, Y. S., Vesal, S., Shao, W., Yang, Q., Soerensen, S. J., Fan, R. E., Ghanouni, P., Kunder, C. A., Brooks, J. D., Hu, Y., Rusu, M., Sonn, et al  
2022; 14: 17562872221128791
  - **Evaluation of post-ablation mpMRI as a predictor of residual prostate cancer after focal high intensity focused ultrasound (HIFU) ablation.** *Urologic oncology*  
Khandwala, Y. S., Morisetty, S., Ghanouni, P., Fan, R. E., Soerensen, S. J., Rusu, M., Sonn, G. A.  
2022
  - **Bridging the gap between prostate radiology and pathology through machine learning.** *Medical physics*

- Bhattacharya, I., Lim, D. S., Aung, H. L., Liu, X., Seetharaman, A., Kunder, C. A., Shao, W., Soerensen, S. J., Fan, R. E., Ghanouni, P., To'o, K. J., Brooks, J. D., Sonn, et al  
2022
- **Correlation of 68Ga-RM2 PET with Post-Surgery Histopathology Findings in Patients with Newly Diagnosed Intermediate- or High-Risk Prostate Cancer.** *Journal of nuclear medicine : official publication, Society of Nuclear Medicine*  
Duan, H., Baratto, L., Fan, R. E., Soerensen, S. J., Liang, T., Chung, B. I., Thong, A. E., Gill, H., Kunder, C., Stoyanova, T., Rusu, M., Loening, A. M., Ghanouni, et al  
2022
  - **Dual X-ray Absorptiometry Screening for Men Receiving Androgen Deprivation Therapy-Hiding in Plain (Film) Sight.** *JAMA network open*  
Kishan, A. U., Kamran, S. C., Soerensen, S. J., Leppert, J. T.  
2022; 5 (4): e225439
  - **Deep Learning Improves Speed and Accuracy of Prostate Gland Segmentations on Magnetic Resonance Imaging for Targeted Biopsy** *JOURNAL OF UROLOGY*  
Soerensen, S., Fan, R. E., Seetharaman, A., Chen, L., Shao, W., Bhattacharya, I., Kim, Y., Sood, R., Borre, M., Chung, B., To'o, K. J., Rusu, M., Sonn, et al  
2021; 206 (3): 605-612
  - **Reply to the Editorial Comment on: Using an Automated Electronic Health Record Score To Estimate Life Expectancy In Men Diagnosed With Prostate Cancer In The Veterans Health Administration.** *Urology.* 2021. *Urology*  
Soerensen, S. J., Thomas, I., Schmidt, B., Daskivich, T., Skolarus, T. A., Jackson, C., Osborne, T. F., Chertow, G. M., Brooks, J. D., Rehkopf, D., Leppert, J. T.  
2021
  - **Deep Learning Improves Speed and Accuracy of Prostate Gland Segmentations on MRI for Targeted Biopsy.** *The Journal of urology*  
Soerensen, S. J., Fan, R. E., Seetharaman, A., Chen, L., Shao, W., Bhattacharya, I., Kim, Y., Sood, R., Borre, M., Chung, B. I., To'o, K. J., Rusu, M., Sonn, et al  
2021: 101097JU00000000000001783
  - **Removing Race from eGFR calculations: Implications for Urologic Care.** *Urology*  
Wilson, F. L., Schmidt, B., White, L., Soerensen, S. J., Ganesan, C., Pao, A. C., Enemchukwu, E., Chertow, G. M., Leppert, J. T.  
2021
  - **Automated Detection of Aggressive and Indolent Prostate Cancer on Magnetic Resonance Imaging.** *Medical physics*  
Seetharaman, A., Bhattacharya, I., Chen, L. C., Kunder, C. A., Shao, W., Soerensen, S. J., Wang, J. B., Teslovich, N. C., Fan, R. E., Ghanouni, P., Brooks, J. D., To'o, K. J., Sonn, et al  
2021
  - **Clinically significant prostate cancer detection on MRI with self-supervised learning using image context restoration**  
Bolous, A., Seetharaman, A., Bhattacharya, I., Fan, R. E., Soerensen, S., Chen, L., Ghanouni, P., Sonn, G. A., Rusu, M.  
edited by Mazurowski, M. A., Drukker, K.  
SPIE-INT SOC OPTICAL ENGINEERING.2021
  - **ProGNet: Prostate Gland Segmentation on MRI with Deep Learning**  
Soerensen, S., Fan, R., Seetharaman, A., Chen, L., Shao, W., Bhattacharya, I., Borre, M., Chung, B., To'o, K., Sonn, G., Rusu, M.  
edited by Isgum, Landman, B. A.  
SPIE-INT SOC OPTICAL ENGINEERING.2021
  - **Weakly Supervised Registration of Prostate MRI and Histopathology Images**  
Shao, W., Bhattacharya, I., Soerensen, S. J. C., Kunder, C. A., Wang, J. B., Fan, R. E., Ghanouni, P., Brooks, J. D., Sonn, G. A., Rusu, M.  
edited by DeBuijine, M., Cattin, P. C., Cotin, S., Padoy, N., Speidel, S., Zheng, Y., Essert, C.  
SPRINGER INTERNATIONAL PUBLISHING AG.2021: 98-107
  - **3D Registration of pre-surgical prostate MRI and histopathology images via super-resolution volume reconstruction.** *Medical image analysis*  
Sood, R. R., Shao, W. n., Kunder, C. n., Teslovich, N. C., Wang, J. B., Soerensen, S. J., Madhuripan, N. n., Jawahar, A. n., Brooks, J. D., Ghanouni, P. n., Fan, R. E., Sonn, G. A., Rusu, et al  
2021; 69: 101957

- **AUTHOR REPLY.** *Urology*  
Soerensen, S. J., Thomas, I. C., Schmidt, B., Daskivich, T. J., Skolarus, T. A., Jackson, C., Osborne, T. F., Chertow, G. M., Brooks, J. D., Rehkopf, D. H., Leppert, J. T.  
2021; 155: 76
- **Registration of pre-surgical MRI and histopathology images from radical prostatectomy via RAPSODI.** *Medical physics*  
Rusu, M., Shao, W., Kunder, C. A., Wang, J. B., Soerensen, S. J., Teslovich, N. C., Sood, R. R., Chen, L. C., Fan, R. E., Ghanouni, P., Brooks, J. D., Sonn, G. A.  
2020
- **CorrSigNet: Learning CORRelated Prostate Cancer SIGnatures from Radiology and Pathology Images for Improved Computer Aided Diagnosis** *Medical Image Computing and Computer Assisted Intervention*  
Bhattacharya, I., et al  
2020
- **ProsRegNet: A deep learning framework for registration of MRI and histopathology images of the prostate.** *Medical image analysis*  
Shao, W. n., Banh, L. n., Kunder, C. A., Fan, R. E., Soerensen, S. J., Wang, J. B., Teslovich, N. C., Madhuripan, N. n., Jawahar, A. n., Ghanouni, P. n., Brooks, J. D., Sonn, G. A., Rusu, et al  
2020; 68: 101919
- **Risk of Depression after 5 Alpha Reductase Inhibitor Medication: Meta-Analysis.** *The world journal of men's health*  
Kim, J. H., Shim, S. R., Khandwala, Y. n., Del Giudice, F. n., Sorensen, S. n., Chung, B. I.  
2019