<u>Curriculum Vitae</u>

Sanda Cristina Oancea, M.S., Ph.D.
Assistant Professor

CONTACT INFORMATION

Address: Master of Public Health Program
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                University of North Dakota
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EDUCATION

July 2011:   PhD Environmental Health Sciences with focus on Epidemiology
                University of Minnesota, Minneapolis, MN, USA
                Dissertation: Recurrence-time model adjusted for time-varying incidence and
                sensitivity
                Advisor: Prof. Dr. Timothy R. Church

August 2002:   Master in Statistics, Oklahoma State University, Stillwater, OK, USA

December 2001:   Master in Theoretical Mathematics, Oklahoma State University, Stillwater, OK,
                USA

June 1995:   Diploma de Licenţă, Lucian Blaga University, Sibiu, Romania
                Major: Mathematics and Computer Science

RESEARCH EXPERIENCE

07/2013 – present   **Epidemiologist,** North Dakota Statewide Cancer Registry (NDSCR), Grand Forks, ND, USA

01/2012 – 07/2013   **Postdoctoral Research Associate,** Epidemiology and Cancer Control, St. Jude Children's Research Hospital, Memphis, TN, USA
- Performed research analyses in the area of childhood cancer, including assessment for potential bias for non-participation in the SJLIFE cohort.

08/2011-12/2011   **Scientist** at the Environmental Health Department, University of Minnesota, Minneapolis, MN, USA
- Performed research analyses on lung and colon cancer data, including bootstrap, jackknife, bias corrected accelerated percentile interval, longitudinal data analysis etc.

2007—2011:   **Graduate Research Assistant** at the Environmental Health Department, University of Minnesota, Minneapolis, MN, USA
- Performed research analyses in the area of Clinical Trials, Survival Analysis and Longitudinal Data Analysis.

2005—2008:   **Graduate Research Assistant** in the School of Nursing, University of Minnesota, Minneapolis, MN, USA
- Performed traditional statistical analyses for predictive modeling of hospitalization among homecare patients.

2004—2006:   **Graduate Research Assistant** at the Biostatistics Department, University of Minnesota, Minneapolis, MN, USA
- Performed research analyses in the area of Clinical Trials, Survival Analysis and Longitudinal Data Analysis.

2003—2004:   **Research Associate** at EuroSIDA, Copenhagen HIV Programme (CHIP), Hvidovre University Hospital, Copenhagen, Denmark
- Performed statistical analyses on a very large data set of HIV patients in Europe, including Poisson Regression Models and Cox Proportional Hazards Models.

TEACHING EXPERIENCE

2013—2014:   **Assistant Professor** in the Master of Public Health Program, School of Medicine and Health Sciences, University of North Dakota, Grand Forks, ND, USA
- Teaching Biostatistics II, Epidemiology and Environmental Health

2002—2003:
2004—2006   **Graduate Teaching Assistant** at the Biostatistics Department, University of Minnesota, Minneapolis, MN, USA
- Taught Linear Regression, Biostatistics I and Advanced Statistical Computing. Conducted programming labs in SAS (both versions, for UNIX and PC).

2000—2002:   **Graduate Teaching Assistant with full responsibility as instructor** at the Statistics Department, Oklahoma State University, Stillwater, OK, USA
- Taught Business Statistics, SAS programming, Applications of Excel to statistics, Probability and Statistics for Engineering.

1998—2000:   **Graduate Teaching Assistant with full responsibility as instructor** at the Mathematics Department, Oklahoma State University, Stillwater, OK, USA
- Taught Calculus I, Calculus II, Linear Algebra and Business Calculus

1996—1997:   **Instructor with full responsibility** at the Mathematics Department, Lucian Blaga University, Sibiu, Romania
- Taught Functional Analysis, Logic and Set Theory

PUBLICATIONS:

1. **Oancea SC**, Gurney JG, Ness KK, Ojha RP, Tyc VL, Klosky JL et al. Cigarette smoking and pulmonary function in adult survivors of childhood cancer exposed to pulmonary-toxic therapy: Results from the St. Jude Lifetime Cohort Study. Cancer epidemiology, biomarkers & prevention : a publication of the American Association for Cancer Research, cosponsored by the American Society of Preventive Oncology. 2014. DOI:10.1158/1055-9965.EPI-14-0266. PubMed PMID: 24939744.

2. Lupei MI, Chipman JG, Beilman GJ, **Oancea SC**, Konia MR. The Association Between ASA Status and Other Risk Stratification Models on Postoperative Intensive Care Unit Outcomes. Anesthesia and analgesia. 2014;118(5):989-94; DOI:10.1213/ANE.0000000000000187, PubMed PMID: 24781569.

3. **Oancea SC**, Brinkman TM, Ness KK, Krull KR, Smith WA, Srivastava DK, Robison LL, Hudson MM, Gurney JG. Emotional distress among adult survivors of childhood cancer. Journal of Cancer Survivorship: Research and Practice. 2014.
DOI:10.1007/s11764-013-0336-0, PubMed PMID: 24459073.

4. Ojha RP, **Oancea SC**, Ness KK, Lanctot JQ, Srivastava DK, Robison LL, Hudson MM, Gurney JG. Assessment of potential for bias from non-participation in a dynamic cohort of

long-term childhood cancer survivors: Results from the St. Jude Lifetime Study. Pediatric Blood & Cancer. 2013 May; 60(5): 856-864; Epub 2012 Sep 28, PubMed PMID: 23024097.

5. Monsen KA, Swanberg HL, **Oancea SC**, Westra BL. Exploring the Value of Clinical Data Standards to Predict Hospitalization of Home Care Patients. Applied Clinical Informatics. 2012 Nov; 3(4): 419-436; DOI: 10.4338/ACI-2012-05-RA-0016, PubMed PMID: 23646088.

6. Westra BL, Dey S, Fang G, Steinbach M, Kumar V, **Oancea C**, Savik K, Dierich M. Interpretable predictive models for knowledge discovery from home-care electronic health records. J Healthcare Engineering. 2011; 2(1): 55-74; DOI: 10.1260/2040-2295.2.1.55

7. Monsen KA, Westra BL, **Oancea SC**, Yu F, Kerr MJ. Linking home care interventions and hospitalization outcomes for frail and non-frail elderly patients. Res Nurs Health. 2011 Feb 25. PubMed PMID: 21360551.

8. Westra, B.L., Savik, K., **Oancea, C.**, Choromanski, L., Holmes, J.H., Bliss, D. Predicting Improvement in Urinary and Bowel Incontinence for Home Health Patients Using Electronic Health Record Data. Journal of Wounds, Ostomy, & Continence Nursing. 2011 Jan-Feb;38(1):77-87. PubMed PMID: 21287773.

9. Westra BL, **Oancea C**, Savik K, Marek KD. The feasibility of integrating the Omaha system data across home care agencies and vendors. Comput Inform Nurs. 2010 May-Jun; 28(3):162-71. PubMed PMID: 20431359.

10. Lupei MI, Mann HJ, Beilman GJ, **Oancea C**, Chipman JG. Inadequate antibiotic therapy in solid organ transplant recipients is associated with a higher mortality rate. Surg Infect (Larchmt). 2010 Feb; 11(1):33-9. PubMed PMID: 19785562.

11. Shaukat A, **Oancea C**, Bond JH, Church TR, Allen JI. Variation in detection of adenomas and polyps by colonoscopy and change over time with a performance improvement program. Clin Gastroenterol Hepatol. 2009 Dec;7(12):1335-40. Epub 2009 Aug 7. PubMed PMID: 19665583.

12. Dierich MT, Westra BL, Marek KD, Savik K, **Oancea C**, Holmes JH, Schondelmeyer SW, Mueller CA. Defining medication complexity and its effect on outcomes in community dwelling elders receiving home care. AMIA Annu Symp Proc. 2008 Nov 6:930. PubMed PMID: 18999187.

13. Choromanski L, Westra B, **Oancea C**, Savik K, Holmes JH. Predictive modeling for improving incontinence and pressure ulcers in homecare patients. AMIA Annu Symp Proc. 2008 Nov 6:908. PubMed PMID: 18998807.

14. Mocroft A, **Oancea C**, van Lunzen J, Vanhems P, Banhegyi D, Chiesi A, Vinogradova E, Maayan S, Phillips AN, Lundgren J; EuroSIDA study group. Decline in esophageal candidiasis and use of antimycotics in European patients with HIV. Am J Gastroenterol. 2005 Jul;100(7):1446-54. PubMed PMID: 15984964.

Submitted / accepted for publication:

1. Shaukat A, **Oancea SC**, Watt GD, Mongin SJ, Kauff ND, O'Brien MJ, Mills GM, Jordan PA, Allen JA, Feld AD, Zauber AG, Winawer SJ, Church TR. (Submitted) Targeting individuals at risk for screening colonoscopy: Model of adenoma risk for colonoscopy screening. Clinical Gastroenterology and Hepatology.

2. Morgan S, Rioux-Massé B, **Oancea C**, Cohn C, Harmon J, Konia M (Submitted) Simulation-based education for transfusion medicine. Transfusion.

EDITING

(Editor-in-Chief) *EuroSIDA, Tracking HIV/AIDS across Europe – 2003*; published by **Copenhagen HIV Programme, Hvidovre University Hospital, Denmark**
Available on-line at: http://www.chip.dk/Portals/_default/pdf_folder/EuroSIDA_tracking_2003.pdf

BOOK CHAPTER

Westra BL, Dey S, Fang G, Steinbach M, Kumar V, **Oancea C**, Savik K, Dierich M. (2012). Interpretable Predictive Models for Knowledge Discovery from Homecare Electronic Health Records. M. Chyu, Ed. Advances in Electronic Health Records, pp. 427-446. Lubbock, TX: Texas Tech University.

PRESENTATIONS:

2012 — Timothy R. Church, PhD; **S. Cristina Oancea, PhD**; A recurrence-time model to estimate preclinical incidence, preclinical duration, and survival under periodic screening accounting for length-bias; XXVIth International Biometric Conference (IBC), Kobe, Japan

2011 — **S. Cristina Oancea, PhD**; Timothy R. Church, PhD; Screening and Predictive Modeling in Epidemiology — Contributed Papers, JSM, Miami Beach, Florida

2010 — **Cristina Oancea, PhD(c)**; Timothy R. Church, PhD; Extending recurrence-time models of periodic screening to accommodate time-varying incidence and sensitivity; XXVth International Biometric Conference (IBC), Florianopolis, Brazil

2008 — Bonnie L. Westra, PhD, RN; Kay Savik, MS; **Cristina Oancea, MS;** John H. Holmes, PhD; Lynn Choromanski, MS; Karen Dorman Marek, PhD, MBA, RN, FAAN; Combining Traditional Statistical Methods with Data Mining Techniques for Predictive Modeling of Homecare Outcomes; University of Minnesota, Minneapolis, MN.

2007 — Bonnie L. Westra, PhD, RN; Kay Savik, MS; **Cristina Oancea, MS;** John H. Holmes, PhD; Lynn Choromanski, MS; Karen Dorman Marek, PhD, MBA, RN, FAAN

Combining Traditional Statistical Methods with Data Mining Techniques for Predictive Modeling of Homecare Outcomes; University of Minnesota, School of Nursing Research Day, Minneapolis, MN.

2007   Bonnie L. Westra, PhD, RN; **Cristina Oancea, MS**; Kay Savik, MS. Decreasing Rehospitalization and Emergent Care Use in Homecare, University of Minnesota, School of Nursing Research Conference, Minneapolis, MN.

2007   Bonnie L. Westra, PhD, RN; Kay Savik, MS; **Cristina Oancea, MS;** John H. Holmes, PhD; Lynn Choromanski, MS; Karen Dorman Marek, PhD, MBA, RN, FAAN; Using Electronic Health Record Data to Predict Medical Emergencies for Homecare Patients, Digital Technology Center Conference, University of Minnesota, Minneapolis, MN.

2003   **Cristina Oancea, MS**; David Mollerup; Michela Nielsen; Ole Kirk, MD; Tracking HIV/AIDS across Europe 2003, 9th European AIDS Clinical Society (EACS), Warsaw, Poland

COMPETITIVE PRESENTATIONS/ POSTERS:

2013   Tara M. Brinkman, **S. Cristina Oancea**, Kevin R. Krull, Leslie L. Robison, Melissa M. Hudson, James G. Gurney. Pathways linking childhood cancer late effects to anxiety and depression in adult survivors: A report from the St. Jude Lifetime Cohort Study. 15th World Congress of Psycho-Oncology and Psychosocial Academy, Rotterdam, The Netherlands, November 7, 2013 (poster and oral presentation)

2013   Yun Zheng, Xudong Zhou, **Cristina Oancea**, Marlys Knell, Mary Ann Sens. The North Dakota Statewide Cancer Registry Data for Research and Public Health Management. American Indian Health Research Conference, Grand Forks, ND, November 04, 2013 (poster presentation)

2011   Lupei MI, **Oancea SC,** Konia MR, Beilman GJ, Chipman JG. Association between the Risk of Anesthesia and Post Operative ICU Outcomes. Annual Meeting of the American Society of Anesthesiologists. Chicago, October 15, 2011 (poster presentation)

2011   **Oancea SC,** Church TR. Extending recurrence-time models of periodic screening to accommodate time-varying incidence and sensitivity; 3rd North American Congress of Epidemiology, Montreal, Quebec, Canada, June 23, 2011 (poster presentation)

2010   Shaukat A**,** Winawer S, Zauber A, **Oancea C**, Church TR. Customizing timing of screening colonoscopy: a predictive model for risk of adenomas; DDW New Orleans LA, 2010. (poster presentation) – received Poster of Distinction at DDW

2009   Shaukat A, **Oancea C**, Church TR, Allen J. Variability in adenoma detection over time: role of educational feedback; DDW, Chicago IL, 2009.(poster presentation)

2009   Bonnie L. Westra, PhD, RN; Kay Savik, MS; **Cristina Oancea, MS;** John H. Holmes, PhD; Lynn Choromanski; Use of Electronic Health Record Data to Predict Improvement

in Homecare Pressure Ulcers and Incontinence, Eighteenth Annual Nursing Research Conference, Informatics Driven Research: Impact at the Point of Care, Mayo Clinic Nursing, February 24, 2009.

2009   Choromanski, L., Westra, B., Savik, L., Holmes, J., & **Oancea, C.;** Discovering Risk Factor and Interventions to Reduce Pressure Ulcers for Homecare Patients; AMIA, Washington, DC, November, 2009 (poster presentation)

2009   Dierich,M., Westra, B., Marek, K., Savik, K., **Oancea, C.,** Holmes, J., Schondelmeyer, S. Mueller, C.; Defining Medication Complexity and Its Effect on Outcomes in Community Dwelling Elders Receiving Home Care; AMIA, Washington, DC, November, 2009. (poster presentation)

2008   Martin M. Oken, Timothy R. Church, Subbarao Inampudi, **S. Cristina Oancea**, Gavin D. Watt, Michael Plunkett, Guillermo Marquez; Sensitivity of computer aided diagnosis among participants at one center in the Prostate, Lung, Colorectal and Ovarian Cancer Screening Trial (PLCO); ASCO, Chicago, IL, May 31, 2008. (poster presentation)

2008   Bonnie L. Westra, PhD, RN; Kay Savik, MS; **Cristina Oancea, MS;** John H. Holmes, PhD; Lynn Choromanski, MS; Karen Dorman Marek, PhD, MBA, RN, FAAN; Discovering Risk Factors and Interventions to Reduce Rehospitalization, Midwest Nursing Research, Indianapolis, IN.

JOURNAL REVIEW

Reviewer for *Applied Clinical Informatics*

FELLOWSHIPS

The Schiller J. Scroggs Distinguished Graduate Fellowship, conferred by the Mathematics Department at Oklahoma State University, USA, for best scholar achievements between all of the graduate students in the Pure Mathematics program.

Dean's List Scholarship Stipend, Lucian Blaga University of Sibiu, Romania. Received stipend for 5 consecutive years based on best academic performance throughout the entire period of university studies.

PROFESSIONAL MEMBERSHIPS

American Statistical Association; International Biometrics Society; the North American Association of Central Cancer Registries, Inc. (NAACCR)

Scientific team member of the Omaha System Partnership for Knowledge Discovery and Health Care Quality, School of Nursing, University of Minnesota (http://omahasystempartnership.org/index.php)