

**Department of Geography
University of North Dakota**

Master's Thesis and Independent Study Titles, 1920-Present*
(Listed in Reverse Chronological Order)

*Send corrections/updates to Dr. Brad Rundquist (bradley.rundquist@und.edu)

Year	Student Name	Research Title
2017	Daniel Burow	THE IMPACTS OF LAKE-EFFECT SNOW ON TRAFFIC VOLUME IN OHIO AND INDIANA, 2011-2015
	Katie Engelmann	EVALUATING WETLAND EXPANSION IN A TALLGRASS PRAIRIE WETLAND RESTORATION
	Courtney Jackson	ASSESSMENT OF CLIMATE CHANGE AND AGRICULTURAL LAND USE CHANGE ON STREAM-FLOW INPUT TO DEVILS LAKE: A CASE STUDY OF THE MAUVAIS COULEE SUB-BASIN
	Eric Torgerson	OIL INFRASTRUCTURE DEVELOPMENT AND RESULTING LAND-COVER CHANGE IN MCKENZIE COUNTY, NORTH DAKOTA, 2009-2014
2016	Brandon Andreassen	BICYCLE TRANSIT AND THE JOURNEY TO WORK: AN EXPLORATION OF BICYCLE ACCESSIBILITY IN 10 LARGE U.S. CITIES
	Morgen Burke	SHELTERBELT DENSITY DYNAMICS AND THEIR DRIVING FORCES IN GRAND FORKS COUNTY, NORTH DAKOTA, 1962 TO 2014
	Dani Prelip	NAVIGATING THE NORTHERN SEA ROUTE: ARCTIC GEOPOLITICS AND SEASONAL ROUTE FEASIBILITY
2015	Dasuni Archchige	MAPPING FLASH FLOOD POTENTIAL USING GIS AND FLASH FLOOD POTENTIAL INDEX (FFPI) IN TURTLE RIVER AND FOREST RIVER WATERSHEDS IN NORTH DAKOTA
	Lawrence Burkett	BLIZZARDS IN THE UPPER MIDWEST, 1980-2013
	Derrick LaPoint	NEEDS ASSESSMENT OF A NEIGHBORS HELPING NEIGHBORS PROGRAM IN THE NEAR SOUTHSIDE NEIGHBORHOOD IN GRAND FORKS, ND
	Lisa Pimentel	BUILT LANDSCAPE DEVELOPMENT IN THE RIVERSIDE NEIGHBORHOOD OF GRAND FORKS, ND, 1870 TO 2015
	David Wiosna	CHANGING BIKE MODE SHARE BETWEEN TIME PERIODS FOR SUFFOLK COUNTY, MA
2014	Zach Braun	WHAT STAGES IN THE PHENOLOGY OF CORN ARE THE MOST CORRELATED WITH RAINFED CORN YIELDS IN THE CORN BELT USING REMOTE SENSING?
	Brett Sergenian	A COMPARISON OF FOOD ACCESSIBILITY FROM 2002 TO 2012 IN ST. PAUL, MINNESOTA

	Mikel Smith	NEIGHBORHOOD PERCEPTIONS IN THE NEAR SOUTH SIDE NEIGHBORHOOD OF GRAND FORKS, NORTH DAKOTA
	Marla Striped Face-Collins	EVALUATION OF SELECTED SPECTRAL VEGETATION INDICES IN SENESCENT RANGELAND CANOPY USING LANDSAT IMAGERY
	Rick Thalacker	MAPPING TECHNIQUES FOR SOIL EROSION: MODELING STREAM POWER INDEX IN EASTERN NORTH DAKOTA
	Melissa Wygant	A PLACE VULNERABILITY ANALYSIS OF CHANGING FLOOD RISK FOR GRAND FORKS, NORTH DAKOTA: 1990-2010
2013	Michael Boucher	CALCULATING THE LOSS OF LAND TO THE OIL INDUSTRY: A STUDY OF MCKENZIE COUNTY, NORTH DAKOTA
	Rhonda Fietzek-DeVries	HISTORICAL HYDROCLIMATIC CHANGE AT THEODORE ROOSEVELT NATIONAL PARK: 1895-2011
	Spencer McGrew	EXPLORING THE IMPACT OF ZEBRA MUSSELS (<i>DREISSENA POLYMORPHA</i>) ON RESIDENTIAL LAKESHORE PROPERTY VALUES IN OTTER TAIL AND BECKER COUNTIES, MINNESOTA
	Lori Young	IS THERE A DISCONNECT? COMPARING NORTH DAKOTA AND NATIONAL GEOGRAPHY STANDARDS
2012	Patrick N. Bright	A GEOGRAPHIC STUDY OF THE LAOTIAN HYDROPOWER SECTOR
	Matthew J. Dinger	IDENTIFYING LOCATIONS OF HIGHLY ERODED AGRICULTURAL LAND IN THE DEVILS LAKE BASIN, NORTH DAKOTA, USING GIS TERRAIN ANALYSIS MODELING
	Angela M. Kitzan	IMPACTS OF TRANSPORTATION AND POPULATION UPON WESTERN NORTH DAKOTA SCHOOL CONSOLIDATION
	Emily A. Knish	THE RELATIONSHIP BETWEEN ATMOSPHERIC CIRCULATION PATTERNS AND WATER SURFACE ELEVATION IN DEVILS LAKE, NORTH DAKOTA: 1965-2010
	Nicholas L. Roehrdanz	MAPPING AND ANALYZING CONSERVATION RESERVE PROGRAM ENROLLMENT PATTERNS FROM 1991 TO 2011 IN NELSON COUNTY, ND, USING REMOTE SENSING AND GIS TECHNIQUES
	Deepthi Waidyasekera	SPATIAL DIMENSIONS OF CONFLICT-INDUCED INTERNALLY DISPLACED POPULATION IN PUTTALAM DISTRICT IN SRI LANKA FROM 1980 TO 2012
2011	Kimberley M. Hoppe	“THEM BOYS WERE HERE ALRIGHT.” A STUDY OF COMMUNITY, CULTURAL IDENTITY, AND ECONOMICS WITHIN DOUGLAS COUNTY, MINNESOTA
	Rodney L. Iverson	AIRLINE SERVICE: EFFECTS ON TRAVEL AND ECONOMIC

		DEVELOPMENT IN NORTH DAKOTA FOLLOWING THE AIRLINE DEREGULATION ACT OF 1978
	Rhonda L. Olson	ASSESSMENT OF POTENTIAL SEDIMENT AND NUTRIENT LOADING FROM RURAL/AGRICULTURAL TO URBAN LAND USE TRANSITION ON THE ENGLISH COULEE, GRAND FORKS, ND
2010	Christina A. Cummings	USING THE HAZUS-MH MODEL TO ASSESS THE PHYSICAL AND ECONOMIC DAMAGES AT THE CITY OF MINNEWAUKAN, NORTH DAKOTA, DUE TO THE EXPANSION OF DEVILS LAKE
	Daniel J. Fasteen	A MIXED METHODS ASSESSMENT OF SERVICE QUALITY IN DEMAND RESPONSE TRANSPORTATION: A GRAND FORKS METROPOLITAN AREA CASE STUDY
	Peter A. Metzger	HIGH-RESOLUTION, LOW-COST, NEAR-INFRARED AND COLOR KITE AERIAL PHOTOGRAPHY AS A TOOL FOR ARCHAEOLOGICAL SITE PROSPECTING AND RECORDING
	Erin A. Pederson	GEOGRAPHIC DISTRIBUTION OF NATURAL AND ANTHROPOGENIC NOISE IN SELECTED GRAND FORKS PARKS
	Benjamin L. Prusa	CHARACTERISTICS OF SEARCH AND RESCUE AT MOUNT RAINIER NATIONAL PARK
	Alison J. Rood	PLACE, POLITICS, AND GAY AND LESBIAN LIFE IN GRAND FORKS, NORTH DAKOTA
	Brian R. Torborg	A CLIMATOLOGICAL ANALYSIS OF SOIL FROST DEPTH AT FARGO, NORTH DAKOTA, USA: 1981-2001
2009	Justin D. Braaten	LANDSCAPE CHANGE IN THE MULTI-USE, MULTI-OWNERSHIP FORESTS OF THE OLYMPIC PENINSULA, WASHINGTON, 1988-2006
	Jordan L. Neau	NORTH DAKOTA'S RENAISSANCE ZONE PROGRAM: EVALUATING SUCCESS IN NORTHEASTERN NORTH DAKOTA
	Susan E. Wahl	THE INFLUENCE OF FLUCTUATING SOLAR SPECTRAL RADIATION ON DIFFERENTIAL SURFACE HEATING AS A FUNCTION OF SOIL GEOCHEMISTRY AND RADIATION ABSORPTION CHARACTERISTICS
2008	Todd A. Fahrni	A HISTORICAL GEOGRAPHY INVESTIGATION OF THE URBAN-RURAL FRINGE OF GRAND FORKS, NORTH DAKOTA
	Matthew J. Golz	EXPLORING THE OBJECT-ORIENTED APPROACH TO ESTIMATING TREE CROWN AREA USING E-COGNITION SOFTWARE
	James C. Lindstrom	RECREATION USE CHARACTERISTICS OF THE MAAH DAAH HEY TRAIL

	Darrel A. Nucech	GEOGRAPHIC VARIABLES AFFECTING NEST LOCATIONS OF BALD EAGLES (<i>HALIAEETUS LEUCOCEPHALUS</i>) IN THE RED RIVER VALLEY OF MINNESOTA AND NORTH DAKOTA
	Virginia M.G. Regorrah	CORRELATION OF PEAK FLOW IN THE RED RIVER OF THE NORTH TO CHANGES IN CLIMATE AND LAND COVER
	William A. Wetherholt	A SURVEY OF ETHICS IN UNITED STATES REMOTE SENSING EDUCATION
2007	Scott A. Abel	THE IMPACT OF HUMAN LANDSCAPE FEATURES AND ASSOCIATED PREDATOR INFLUENCES ON DUCK NEST SURVIVAL IN THE PRAIRIE POTHOLE REGION
	Tina N. Billups	STAYING POWER: AGING-IN-PLACE IN LARIMORE, NORTH DAKOTA
	Julie M. Gallagher	THE APPLICATION OF REMOTE SENSING LiDAR DATA FOR THE DETECTION OF CULTURAL RESOURCES IN A FORESTED ENVIRONMENT: AN EXAMPLE FROM ISLE ROYALE NATIONAL PARK, MICHIGAN
	Lisa M. Kuchy	REMOTE SENSING-BASED STUDY OF LAND-COVER CHANGES RELATED TO MINING AND ITS IMPACTS ON MARINE FAUNA: A CASE STUDY IN GOA, INDIA
	Kristofor P. Parson	PREDICTING SELENIUM IN PINTO BEANS USING LINEAR REGRESSION AND GIS
2006	Lane D. Cowger	LIBERIAN REFUGEES IN THE RED RIVER VALLEY: A GEOGRAPHY OF HOPE
	Alex Feidler	THE GEOGRAPHY OF METHAMPHETAMINE IN NORTH DAKOTA
	Charles C. Geraci	REMOTE SENSING ASSESSMENT OF WIDESPREAD SALT CEDAR INFESTATION AND BIOLOGICAL CONTROL IN NORTHWEST NEVADA
	Joshua J. Johnston	GEOGRAPHIC VARIABLES AFFECTING BALD EAGLE NEST LOCATIONS IN THE RED RIVER VALLEY OF NORTH DAKOTA AND MINNESOTA
	William Vandevander	THE FEASIBILITY OF REESTABLISHING PROFESSIONAL BASEBALL IN GRAND FORKS, NORTH DAKOTA
	Gary S. Votaw	BIAS IN SEVERE THUNDERSTORM AND TORNADO WARNINGS ISSUED BY THE NATIONAL WEATHER SERVICE IN THE DOPPLER RADAR ERA: A SPATIAL-TEMPORAL EVALUATION
2005	Mark R. Engel	INVESTIGATING THE POTENTIAL OF SNOWMOBILING TO PROMOTE THE ECONOMIC DEVELOPMENT OF NORTH DAKOTA'S RENDEZVOUS REGION
	Kyle A. Glazewski	INTEGRATION OF GIS AND SMOKE PLUME

		DISPERSION MODELING FOR PRESCRIBED BURNS AT GRAND FORKS AIR FORCE BASE
	Sharon Grzeskowiak	PLANNING FOR CULTURAL/HERITAGE TOURISM FOR EAST GRAND FORKS, MINNESOTA
	Nsalambi V. Nkongolo	SPATIAL VARIABILITY OF NITROUS OXIDE (N ₂ O) EMISSIONS AND SOIL PROPERTIES IN A JAPANESE LOWLAND SOIL
	Sarita Pachhai	COMPARISON BETWEEN 1-M LIDAR AND 30-M NED DIGITAL ELEVATION MODELS FOR TEMPORARY FLOODWATER STORAGE ESTIMATIONS IN THE RED RIVER OF THE NORTH BASIN
	Md Shahriar Pervez	LAND COVER DYNAMICS AND CONVERSION OF AGRICULTURAL LAND IN NORTHWESTERN BANGLADESH, 1973-2003
	Brent E. Pringle	USING HIGH SPATIAL RESOLUTION IMAGERY TO MAP LEAFY SPURGE AND CANADA THISTLE IN THE NORTH UNIT OF THEODORE ROOSEVELT NATIONAL PARK
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	Ryan P. Brooks	A PLAN FOR RESIDENTIAL AND COMMERCIAL DEVELOPMENT IN THE POINT AREA, EAST GRAND FORKS
	Scott B. Dubsky	GUAM'S COMPETITIVE ECONOMIC ADVANTAGE: THE IMPACT OF THE UNITED STATES MILITARY PRESENCE AND JAPANESE TOURISM
	David E. Dyrud	SEEKING THE ECONOMIC COMMUNITIES OF NORTH DAKOTA: A COMPREHENSIVE COUNTY CONSOLIDATION STUDY
	Diane C. Holden	WALSH COUNTY, NORTH DAKOTA: MITIGATION AS A NON-STRUCTURAL FLOOD CONTROL MEASURE – A PRACTICAL APPLICATION IN GIS
	James A. Rush	A CONTEMPORARY GEOGRAPHY OF SOUTHEASTERN NORTH DAKOTA'S MANUFACTURING SUCCESSES
	Lee R. Saunders	MINORITIES AND LOW-INCOME PEOPLE IN THE RICHMOND-PETERSBURG AND ROANOKE METROPOLITAN STATISTICAL AREAS AT RISK OF EXPOSURE TO ENVIRONMENTAL HAZARDS
2003	Paul R. Sethre	ASSESSING OPEN WATER EXPANSION FROM 1991-2002 IN THE DEVILS LAKE BASIN OF NORTH DAKOTA USING SUBPIXEL CLASSIFICATION OF REMOTELY SENSED DATA
	Earl K. Davis	CREATING A COMPREHENSIVE MAP OF ROATAN,

HONDURAS, USING GIS

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- Nick A. Hegge AN ANALYSIS OF THE ECONOMIC BASE OF ORTONVILLE, MINNESOTA
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- Verna M. Kentner READING THE CULTURAL LANDSCAPE THROUGH NECROGEOGRAPHY: A STUDY OF GRAVEYARDS AND ETHNICITY IN POLK COUNTY, MINNESOTA
- 1994 David A. Hampsten AN ANALYSIS OF URBAN HISTORIC GEOGRAPHY: METROPOLITAN GRAND FORKS, NORTH DAKOTA, 1874-1914
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	Melford J. Johnson	THE IMPORTANCE OF MANUFACTURING IN THE ECONOMIC DEVELOPMENT OF GRAND FORKS: A CASE STUDY
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1992	Cynthia Kordecki	DISTRIBUTION ANALYSIS OF PREHISTORIC BURIAL MOUNDS IN NORTH DAKOTA
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	Kirk Jensen	ECONOMIC BASE AND INDUSTRIAL DEVELOPMENT DIRECTIONS FOR DEVILS LAKE
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