DRAGON PRIDE

MINNESOTA STATE UNIVERSITY
MOORHEAD
MNSTATE.EDU
Geospatial Ethnographic Methods and Prairie Nations Research

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Anthropology

• “the study of people”
• Emerges as an academic discipline in the 1800s
4 Subfields

- Archaeology
- Physical Anthropology
- Linguistic Anthropology
- Cultural Anthropology
• **Linguistic Anthropology**
  – Seeks to understand people through the study of their language and language use

• **Cultural Anthropology**
  – Seeks to understand people through the study of their culture
GIS and Me

• Combined department
  – Anthropology
  – Geography
  – Geology
  – Earth Science Education
GIS HISTORY @ MSUM

- Around mid-2000s, interest in GIS
- Curriculum changes
- Adjunct hire 2014
- Full-time instructor 2015
- Undergraduate Certificate in GIS 2015
  - ANTH, BIO, SUS, POLI SCI, GEOS
- Tenure-track position 2016
Center for Geospatial Studies

• The Center for Geospatial Studies seeks to advance the Red River Valley and the lives of its citizens by: educating students, faculty, staff, and the broader community to think spatially, training them to perform technically using geospatial technologies, and customizing and serving data and conducting spatial analyses to inform regional decision-making.
ESRI and Me in 2015
“integrate spatial thinking and spatial analysis into Anthropological Research”

Personal research and teaching

Quantitative and Qualitative data

Using GIS in the collection, visualization, and anthropological interpretation of data
Prairie Nations Research Group

• Ongoing research, linguistic and cultural, contemporary and historic, with aspects of Prairie Nations

• Research group consisting of faculty and undergraduate students from multiple disciplines
Prairie Nations

- Meskwaki (Fox)
- Sauk (Sac)
- Kickapoo
- Ojibwe (Anishinaabe)
- Ioway
- Dakota
- Mascouten
Revisiting “Old Projects”
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<th>Stoney</th>
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Meskwaki and Sauk Friends and Foes

![Diagram showing Meskwaki and Sauk groups and time periods: Mich., Woodpecker, Potawatomi, Settlers, Huron, Iroquois, Delawares, Fox, Illinois, Miami, Kickapoos, Shawnees.]}
Meskwaki Territory
Winnebago County, WI
1700s-1800s

Legend

Mes:shko:te:waki
Peoria/Illinois

Osaki:waki
Sauk

Pehki:neni:hakii
Potawatomie
Delaware

Miami

Algonquian
Caddoan
Iroquoian
Muskogean
Siouan
Uto-Aztecan

Peaceful

Warrior
Meskwaki Territory
Wayne County, MI
1600s-1700s

Meskwaki
Fox

Legend

Language Family
Algonquian
Caddoan
Iroquoian
Muskogean
Siouan
Uto-Aztecan

Peaceful

Conflictive

Osaki:waki
Sauk

Ottowa

Huron

Delaware

Osikane:ha
Iroquois

Pehki:neni:haki
Potawatomi

Kickapoo

Miami

Winnebego

Menominee

Ojibwe

Wyndot

Achipwe:waki

Na:towe:wa

Wi:neye:kowa

Me:shko:te:waki
Peoria/Illinois

Sha:wano:wa
Shawnee
Meskwaki Dialect Survey
Meskwaki Language App

Meskwaki Language Preservation & Ogoki Learning have created the first Meskwaki Language app. The app is free and will be available on both Apple and Android devices. The app is scheduled to be released on the week of November 16 – 22, 2015.

natoneamoko

DRAGON PRIDE
Northern Ioway Development
Meskwaki and Sauk Cultural Geography
Encouraged by a potential alliance with the English, the Fox Indians besieged Fort Pontchartrain, Detroit, in 1712. Repulsed by the French and their Huron and Ottawa Indian allies, the Fox retreated and entrenched themselves in this area known as Presque Isle. The French pursued and defeated the Fox in the only battle fought in the Grosse Pointes. More than a thousand Fox Indians were killed in a fierce five-day struggle. Soon afterward, French settlers began to develop the Grosse Pointes.

Fox Indian Massacre historical marker in Grosse Pointe Park.
Photograph by the author.
Osage River Reservation, 1846-1869
Environment and the New Reservation

Osage River Reservation, Kansas
ca. 1844-1869
Rendition of Robert Stevens Map
2010 Bare Earth Data
Kansas GIS
UTM Zone 15

Aspect
- Reservation
- Thaudi
- Meskwaki
- Agency

Flat (-1)
North (0.22.5)
Northeast (22.5-67.5)
South (157.5-202.5)
Southeast (112.5-157.5)
West (247.5-292.5)
Northeast (202.5-337.5)
North (337.5-360)
Osage River Reservation, Kansas
ca. 1844-1869
Rendition of Robert Stevens Map

2010 Bare Earth Data
Kansas GIS
UTM Zone 15

Created by, Jesus Romero Lopez
Student Projects
ESRI and Anthropology

Currently “Anthropology” is not an option in the ESRI universe

ESRI has recognized “Social Sciences” and specific ones

367,185 (2014 #’s)