

Technology for Anishinaabemowin: Language learning and beyond
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The goal of this talk is to give an overview of recent efforts in my research group to build technological resources for Anishinaabemowin (Ojibwe) for research, learning, and general use. I begin by discussing the guiding principles of our work—Respect, Openness, and Flexibility—which form the foundation of both the projects that we engage in and the design choices we make. I will then review our ongoing work. First, our work to build speech synthesis systems for Ojibwe (joint work with Professor Jian Zhu and RAs Changbing Yang, and Tom Wang) and our efforts to work with language instructors to understand how it can be put to use in language learning settings and beyond (joint work with RA Viann Chan). Second, our work to create an automatic morphological parser for Ojibwe (joint work with Professor Antti Arppe, Dr. Miikka Silfverberg, Nora Livesay, and RA Anna Stacey), which will be used to create a morphologically parsed corpus, a spell-checker, intelligent dictionary search within the Ojibwe People’s Dictionary, and an automatic verb conjugation tool within the *Anishinaabemodaa* learning platform. Finally, I will discuss work to build a basic rule-based translation module for Ojibwe (joint work with Dr. Miikka Silfverberg and RA Minh Nyugen), which will also be integrated into the automatic verb conjugation tool.