

Curriculum Vitae
Christopher Horsethief Ph.D.
7320 E 5th Ave
Spokane Valley, WA
99212

Academic Positions

- *Adjunct Professor, Gonzaga University, MBA-AIE (2012-2019)*. Planned, executed, and evaluated all aspects of the MBUS 617 Leadership and MBUS 699 Strategy Seminar courses for Gonzaga University's Graduate School of Business. MBUS 617 focused on dynamics of Indigenous Native American/First Nations communities, including key differences between Indigenous Ways and Western Ways of Knowing, the Residential School/Boarding School processes, and the common symptoms of collective or cultural trauma that may inhibit future leadership initiatives. MBUS 699 identified strategies for moving theoretical understanding of scale-free long tail aggregators into successful operational strategies including social network and media advertising best practices.
- *Chair, Ktunaxa Nation Council Research Ethics Committee (2016-present)*. Reviewed multiple academic, scientific and historical research projects relevant to the Ktunaxa Nation, including educational research (1 dissertation, 3 theses, and multiple capstone research papers) and professional research (1 Indigenous Services Canada grant, 1 Social Sciences and Humanities Research Council Federal research grant and 1 Canadian Institutes of Health Research Federal grant). The Chair position oversees regular communication with other REC members, as well as regular reports to the Traditional Knowledge and Language Advisory, the KNC Executive Council and Ktunaxa member community Chiefs and Councils.
- *Indigenous Scholar In Residence, College of the Rockies (2016-2018)*. Coordinated Ktunaxa Co-Instruction for multiple courses and functions, along with the Indigenous Education Team, administration and Ktunaxa Auxiliary Instructors. Specific topics include Indigenous education, post-collective trauma information sharing, faculty pre-engagement training, and intensive 2-day Ktunaxa pronunciation, morphology and grammar workshops. Additional responsibilities involved direct instruction, Indigenization planning and administrative and policy review responsibilities.
- *Instructor, College of the Rockies (2014-2017)*. Implemented all aspects of course delivery for the CotR FNST 203 Aboriginal Ways of Knowing. The course developed students' conceptualizations of Western and non-Western epistemologies, through comparison and contrast of ways of learning, intergenerational transfer and protection of group identity across space and time. Central to the course is the role of culturally nuanced context in information sharing and problem solving. Course was offered in the Moodle format, with additional videos, print materials and interactive media to facilitate learning.
- *Instructor, College of the Rockies (2011-2018)*. Implemented all aspects of course design and delivery for Introduction to the Ktunaxa Language 101 (2010-present) and Intermediate Ktunaxa 102 (2013-2017) courses. Courses were offered in the Moodle format, with additional video productions, print materials and interactive media to facilitate learning. Starting 2016 the courses also included the use of iOS and Android Ktunaxa language learning Apps. Starting 2018 these courses will be offered in a hybrid format, with lectured offered in person, and recorded for online learner ingestion.
- *Adjunct Professor, University of Victoria, Education Curriculum & Instruction (2015, 2019)*. Planned, executed and evaluated all aspects of IED373 Aboriginal Education course. The course developed students' conceptualizations of Indigenous Education and Indigenous Ways of Knowing, their contrast and comparison to Western epistemologies, the Canadian Indian Residential School System and the Indian Child Welfare Mechanism (including foster care and adoption), their impact on the intergenerational transfer of culture and protection of Indigenous identity across space and time. Central to the course is the role of context-dependent information sharing and collective problem solving in Indigenous communities. The program utilized the CourseSpaces electronic platform.

- *Visiting Professor, Union Institute & University, Doctoral Program (2013-2014)*. Planned, executed, and evaluated all aspects of the Doctoral program's FDNS 703 Engaging Difference course, the ECL 812 Leadership in a Complex World course, and the FNDS 703 Leadership and Group Dynamics course. FDNS 703 explored "difference" ranging from emic conceptualizations, to heterogeneous agent preferences and diverse perspectives, to deep structures manifesting themselves in inequitable resource distributions. ECL 812 focused on understanding the theoretical underpinnings of complex emergent processes as they pertain to leaders, leadership theorists, and leader-follower interactions. FNDS 703 focused on group dynamics that inform and contribute to leadership and followership negotiations.
- *Visiting Instructor, Various Indigenization Projects, Selkirk College (2016-present)*. Planned, executed, and evaluated Ktunaxa aspects of the Regional Perspectives course (offered twice), Introduction to the Ktunaxa Language 2-day workshops (offered twice), and various lectures in 100 and 200 level courses (including introductory lectures in business administration and contemporary issues in Canadian politics, naturalization and immigration). In addition to collaborative authoring and coordinated delivery of lectures, these Indigenization projects ended with faculty development workshops exploring possible courses/modules for future Indigenization and Truth and Reconciliation efforts.
- *Instructor, Spokane Tribal College Spokane/Wellpinit Branches (2005-2012)*. Planned, executed, and evaluated all aspects of the Native American Images in Film (2005, 2006), Introduction to Business (2009-2010), Video Production (2009-2010), Introduction to Marketing (2010-2011), College Algebra (2010-2011), Business Math (2010-2011), Calculator Lab (2010-2011), Introduction to Probability and Statistics (2011-2012), Macroeconomics (2011-2012), and Management and Supervision (2012). Specific attention is paid to developing the occupational skills of tribal students.
- *Instructor, College of the Rockies (2010-2012)*. Implemented all aspects of course delivery for the CotR Nation Rebuilding courses, including Nation Rebuilding (2011), Role and Functions of Indigenous Governance (2011), Values (2011), Leadership (2011), and Intergovernmental Relations (2011). The courses prepared students for careers complementary to contemporary social, political, and economic rebuilding efforts. The central themes of the courses are currently being delivered as in-community workshops among the 4 Ktunaxa Indigenous. Please see "Nation Rebuilding Specific Activity".
- *Instructor, College of the Rockies (1996-1997)*. Implemented all aspects of course delivery for Social, Political, and Economic Development in Indigenous Communities 1 and 2. The courses focused on a wide variety of issues facing Indigenous communities, including language and cultural retention efforts, the dynamic and long-term effects of the residential school experience, and contemporary economic development policies.

Curriculum Development

- *Curriculum Consultant, College of the Rockies (2016-2018)*. Facilitated the discussion of Indigenous community goals, prospective course outcomes, elder/community cultural consultant interviews and design of the upcoming Ktunaxa 100 course. The course is designed to build bridges across the epistemic divide limiting openness and cooperation between the Ktunaxa Nation, and its educational and industry partners. Secondary goals include promotion of Ktunaxa language speakers, elders and cultural consultants as auxiliary employees to support more Indigenous Ways/Western Ways classroom interaction.
- *Curriculum Developer, Indigenization Project/Regional Perspectives Course, Selkirk College (2016-present)*. Represented the Ktunaxa Nation in the development of course materials related to the Regional Perspectives Course alongside Selkirk College administrators and Okanagan/Sinixt and Metis developers, and collaborated with 3 Selkirk College Instructors to incorporate Indigenization themes to existing syllabi and course curriculum in Business Administration, Human Resources and Immigration and Naturalization courses. The Regional Perspectives course required coordination and cooperation with neighboring Indigenous educational specialists, and several in-person group meetings with faculty and learners.

- *Curriculum Consultant, College of the Rockies (2012-2013)*. Participated in evaluating existing course curricula and implementing changes to develop the authenticity of linguistic interpretation of Indigenous languages, with specific emphasis on the Ktunaxa language. The courses included Ktunaxa/Linguistics 101 and Ktunaxa /Linguistics 102. The work included significant incorporation of Ktunaxa fluent speaker and community cultural consultant input.
- *Curriculum Consultant, College of the Rockies (2010-2011)*. Participated in evaluating existing course curricula and implementing changes to develop the authenticity of Indigenous attitudes, opinions, and experiences. Courses included Indigenous Worldviews, indigenous Ways of Knowing, Indigenous Families, Indigenous Family Support Studies, Introduction to the Ktunaxa Language, and Intermediate Ktunaxa.
- *Curriculum Designer, Yaqan Nukiy Tribal School/LKES (2000-2012)*. Contributed to several online and digital Ktunaxa language resources, including the Christine Louie analog tape collection, the Wilfred Jacobs digital tape collection, the Fortis BC sponsored Listen and Learn DVD, and the Yaqan Nukiy Tribal School Desktop Elder Interview Collection.
- *Curriculum Development (2008-2010) ᑭᐱᑭᐱᑭᐱᑭ Primary School*. Contributed to the development of materials to closed the gap between fluent Ktunaxa -speaking community cultural consultants and primary school students. Tasks included community consultation, material development, and delivery/testing of the multimedia language units.

Primary Investigator

- *Primary Investigator, Indigenous Services Canada Research Grant, Administered by the Ktunaxa Nation Council (2019-present)*. I coordinate Indigenous research contributions to an Indigenous Services Canada research grant seeking better understanding of the tensions between local Indian Band governance and Ktunaxa Nation Council programs and services. The research process includes qualitative interviews with Ktunaxa member Band Chiefs and Councils, community elders and cultural knowledge holders, and key Ktunaxa Nation Council technicians. The interviews seek to document and explore the flow of organizational information, particularly in the context of administrative gaps and grey areas. Findings will inform ISC on cost reduction strategies through future tribal governance alignment measures. Responsibilities include administrative and accounting oversight, coordination of qualitative research interviews, formalization of the Ktunaxa Indigenous Research Methodology, conducting community participation action research data collection, updating community leadership and final report contributions.
- *Researcher, Canadian Institutes of Health Research, Administered by Interior Health (2017-present)*. I coordinate Ktunaxa Nation Council research contributions to Interior Health's xaᑭqanaᑭ ᑭᐱᑭᐱᑭᐱᑭ/Many Ways of Working Together research project. The research addresses how health practitioners and researchers can support Indigenous contributions to health research, conceptualizations of healthy living, and collaborative/cooperative problem-solving activities with respect to health and wellness. Responsibilities include administrative and accounting oversight, coordination of qualitative research interviews, formalization of the Ktunaxa Indigenous Research Methodology, conducting community participation action research data collection, updating community leadership and final report contributions. This project received a funding extension through CIHR's Institute of Indigenous Peoples' Health.
- *Primary Investigator, Social Sciences and Humanities Research Council Research Grant, Administered by Selkirk College's Applied Research institute (2017-present)*. I coordinate Ktunaxa Nation research contributions to Selkirk College's Exploring Reconciliation Through Community College Education research grant. The grant is funded to address the research question: How does a 2-year community college respectfully engage in Truth and Reconciliation activities through education with the Indigenous and Métis communities in the traditional territories in which it operates? Responsibilities include administrative and accounting oversight, coordination of qualitative research interviews, formalization of the Ktunaxa Indigenous Research Methodology, conducting community participation action research data collection, updating community leadership and final report contributions.

Consulting and Employment

- **Videographer, Native American Rights Fund (2018-present).** Planned, recorded, converted, harmonized, duplicated and mailed raw footage of Ktunaxa Nation cultural consultant, elder, and ally interviews regarding efforts to protect Kootenai Falls from a hydro-electric project. Interviews were processed at my studio in dual system 1080p MP4 video with 48k 16-bit stereo audio. Finally, a call-to-action teaser was produced to raise awareness and seek funding for a full-length documentary. The funding ask video can be viewed here: <https://vimeo.com/357791930/e255cc4c01>
- **Facilitator, Leadership Workshop (2019).** Designer and facilitator of the Transformation Leadership workshop at the United Church's FaithFest, focusing on Truth and Reconciliation, authentic communication and interaction as anti-epistemological unlearning of preconceptions. Nelson United Church, Nelson, BC.
- **Digital/Mobile Strategy Consultant, Muckleshoot Tribal Language Program (2015-2017, 2019-present).** Executed consecutive work agreements to develop a series of iOS and Android Second Language Acquisition apps. These apps include vocabulary builder apps, social media mediated competition apps and gaming apps. Secondary objectives included evaluation of information sharing and communication issues to improve the iterative delivery of Alpha-, Beta-, soft-release and post-release changes to apps. Additionally, regular iTunes Store and Google Play dashboard data on platform, device, user information and downloads are relayed to the Muckleshoot Language Program staff.
- **Facilitator, Ktunaxa Language and Cultural Workshops (2012-present).** Planned and delivered in-community workshops designed to promote Native Language and Indigenous Cultural Revitalization within the Ktunaxa Speech Community. The workshops have explored the history of Ktunaxa speakers from pre-contact, colonial, Treaty era/post-colonial, and contemporary perspectives. They progressed through a series of health and wellness themes, as explored through the collective experience of the 6 Ktunaxa communities, as well as numerous non-Reservation urban and rural populations. The coordinated goal has been to stimulate speech community resilience by alleviating problematic internal feedback and promote information sharing in problem-solving networks. The titles of the workshops follow:
 - ka.knikna?mu—All My Relations Genealogy Workshop, Creston BC (2019)
 - Indigenous Culture Camp, Lower Kootenay Band, Creston BC (2019)
 - Ktunaxa Language Workshop (Ktunaxa Nation Member emphasis), College of the Rockies Cranbrook Campus (2017)
 - Ktunaxa Language Workshop (Industry and Educational partner emphasis), College of the Rockies Cranbrook Campus (2017)
 - Ktunaxa Language Workshop, Selkirk College Castlegar Campus (2016)
 - Ktunaxa Language Workshop, Selkirk College Salmo Learning Center (2016)
 - Ktunaxa Conversation, Information Sharing & Reconciliation Workshop (2016)
 - Intensive Ktunaxa Workshop, Nelson Learning Centre Selkirk College (2016)
 - Exploring Word Particles, Affixation and Tense Workshop(2016)
 - Ktunaxa Statements, Interrogatives and Negatives Workshop (2015)
 - The Role of the Ktunaxa Language in Describing the World Workshop (2014)
 - Ktunaxa Family and Indian Names workshop (2014)
 - Ktunaxa Alpha Bootcamps/Culture Camps (2014, 2015a, 2015b, 2016)
 - Lower Kootenay Dialect Language Workshop (2013)
 - Nupika's Children: Ktunaxa Language Endangerment Workshop (2013)
 - Written Ktunaxa: IPA vs. Borrowed English vs. Syllabics (2012)

- **Facilitator, In-community Nation Rebuilding Workshops (2014-present)**. Designed, planned, and delivered all aspects of in-community Ktunaxa Nation Rebuilding workshops. Workshops were intended to facilitate synthesis of ongoing community development initiatives with post-collective trauma Nation Rebuilding. Specific topics include identifying optimal culture matches between contemporary administrative assets and traditional Ktunaxa cultural structures such as theories of learning, communication dynamics, and leadership/governance processes. The workshops are ongoing. They include:
 - Organizational Communication, Alignment and Fragmentation (2019)
 - Visual Data and Leadership (2018)
 - Ktunaxa Sovereignty and Traditional Decision-Making. (2017)
 - Ktunaxa Problem-Solving and Reconciliation. (2016)
 - Ktunaxa Language and Naming Conventions. (2015)
 - Context, Communities of Practice and Internal Barriers. (2015)
 - Communication, Information Transfer and Collective Memory. (2015)
 - Traditional Communication, Leadership and Problem Solving. (2014)
 - Collective Trauma, Deep Structures and Cultural Entropy. (2014)
- **Qualitative Research Specialist, Eastern Washington University (2015-2016)**. Primarily planned, implemented and coded initial round of qualitative interviews with Tribal Leaders regarding Lucy Covington's legacy for The Eastern Foundation's Lucy Covington Oral History Project. Interview participants included Tribal leaders Mel Tonasket, Jim Thomas, Ron Allen, Carol Evans, Allen Parker, Ernie Stensgar and documentarian Steve Heiser. The coding scheme identified leadership qualities along several topics, including Termination, Sovereignty, leadership training and change initiative implementation. The project also required a review of the physical archives at the Spokane Tribe of Indians in Wellpinit, Washington.
- **Facilitator, American Indian Business Leaders (2015-present)**. I have had the pleasure of supporting Indigenous learners by participating in AIBL National Conference and Mentorship activities. These included multiple workshops at the 2015, 2016, 2017, 2018 and 2019 National AIBL Annual Conferences (Social Media Advertising, Colonization and Capacity Building, and Data Driven Decisions), as well as 2 keynote presentations (Visualizing Social Media and Why Discuss Connection and Leadership?) Additionally I have provided assistance and direction in developing decision models for mentorship grants and data analysis for reporting and fundraising purposes.
- **Videographer, University of Arizona Native Nations Institute (2015)**. Planned, recorded, converted, harmonized, duplicated and mailed raw footage of Ktunaxa Nation consultants Kathryn Teneese, Sophie Pierre and Gwen Phillips for a Ktunaxa Nation case study for the Native Nations Institute. Additionally, reviewed the case study for Ktunaxa Nation Research Ethics considerations. Dual system recordings included 1080p MP4 video with 48k 16-bit stereo audio, and were stored and shipped on SD U3 media in static proof packaging.
- **Developer/Administrator: Spokane Tribe of Indians' Cultural Preservation Interactive Gallery (2012-2017)**. Designed and published a gallery of historic still photos, videos and interpretive information from a variety of collections to gather user community contributions to the Spokane Tribe's heritage resource collection and preservation efforts. Also managed a corresponding social media page, site testing team and coordinated implementation of suggested revisions. Each photograph contains a user-friendly thread to facilitate information dissemination and collection. The information gathered will be used in future Spokane Tribe policy initiatives. Additionally, Spokane tribal members were trained to monitor, administer and update the page.

- *Statistical Analysis Consultant: BCFNHA via Ktunaxa Nation Council (2015-2017)*. Consulted on all phases of the development of a Community Reporting Template for use by Indigenous to report statistical data and results of statistical analysis both to the Aboriginal Affairs and Northern Development Canada and to back Indigenous communities. Focus was on survey instrument design, training of census and survey takers, interpretation and visualization of data. Specific topics presented in the template include bias and reliability, data visualization, common reporting methods, participant engagement and relation to existing AANDC data collection instruments.
- *Owner/Producer: First Nations Apparel (2013-present)*. This clothing line specializing in Native American apparel, with an emphasis on community building, language revitalization, and positive cultural themes. The business has been used as a case study for several social media and business strategy endeavors. In addition to selling clothing and promoting Indigenous capacity, the business has explored various e-commerce analytic platforms including Yahoo! Small Business, Yahoo! Analytics, Facebook Insights, and Google AdWords for Native American entrepreneurs.
- *Statistical Analysis Consultant: Ktunaxa Nation Council Census (2009-present)*. Consulted on the initial 2009, 2014 and 2019 iterations of the Ktunaxa Nation Census survey instrument design and refinement, training of the Census takers, interpretation and visualization of the Census data, and STATA 10-12 training for KNC personnel. The final project report addressed possible sources of bias, reliability metrics, and suggested future statistical research directions for Ktunaxa Nation sectors, including the Child and Family Services Society and Governance Transition researchers. The final report of the 2019 iteration is in preparation for Ktunaxa Nation leadership review.
- *Social Indicators Analysis Research Consultant: Ktunaxa Nation Council (2010-present)*. Managed, planned, and executed all aspects of a comprehensive research project designed to solicit traditional Indigenous attitudes and opinions of obstacles to Ktunaxa administrative and policymaking endeavors. Specific topics included the Ktunaxa life-cycle, relationships between self-individual-family-camp-society, traditional education and the learning process, social roles and responsibilities, specific cultural jobs, Indian names, the oral tradition, rites of passage, and the Ktunaxa identity. The report was used to create DVDs for home and community delivery. The goal of the project was to increase the culture match between Ktunaxa programs and the Ktunaxa, adopted Ktunaxa and Indigenous populations. This video is available for Ktunaxa Nation community members to view by private link.
- *Qualitative Analysis Consultant: Ktunaxa Nation Council (2009-present)*. Managed, planned, and executed a comprehensive research project designed to solicit and summarize traditional Indigenous attitudes posing obstacles to Ktunaxa economic investment and financial policymaking endeavors. Specific topics included traditional conceptualizations of risk and decision under uncertainty, cultural taboos interfering with retirement or insurance against personal injury, the relationship between investing resources and giving birth, and traditional ideas about the relationship between wealth and greed. The ultimate goal of the project was to increase the culture match between Ktunaxa economic, financial, and retirement policies and the Ktunaxa, adopted Ktunaxa, Indigenous and Metis populations impacted by them. Raw video of these interviews are available for Ktunaxa Nation community members to view by private link.
- *Social Determinants Research Consultant: Ktunaxa Nation Council (2010-present)*. Managed, planned, and executed all aspects of a research project to explore Social Determinants of Health and Health Inequities, and their applications to current Ktunaxa Nation Council policymaking initiatives. Specific phases included a review of the literature on social determinants, health inequalities, and their application in Indigenous populations, and comparisons of successful United Nations case studies to Ktunaxa administrative structures to determine the feasibility of alternative conceptualizations of health, wellness, and self-worth in local Indigenous programs. The ultimate goal of the project was to start a conversation of alternative community resilience and development strategies to increase the likelihood of success in Ktunaxa programs, departments, and services.

- *Facilitator: hakamxuniqa/To Put Into Arrangement Information Taxonomies Nation Workshop (2013)*. Planned and delivered a workshop developing the cultural context for the Ktunaxa Indigenous speech community, including Ktunaxa Nation Council Sectoral and member band employees. The focus was to develop and implement strategies for building community context through signage, posters, and digital picture frames. The primary results of the workshop increased language based task accomplishment and cooperation.
- *Facilitator: xawiçikimik/For All To Be Connected Nation Workshop (2013)*. Planned and delivered a workshop focusing on historical inaccuracies in cross-cultural contexts for the Ktunaxa Indigenous speech community, including Ktunaxa Nation Council Sectoral and member band employees. The workshop consisted of intensive Indigenous language interviews among fluent speakers and community cultural consultants to remove Western bias from Indigenous knowledge creation process. Elders and fluent speakers jointly renegotiated the meeting of foundational social terms; the learning process, respect, mutual respect, responsibility.
- *Facilitator: Decolonization, Language Death & Resilience Nation Workshop (2013)*. Delivered capacity building presentations to Indigenous community members pursuing collective self-actualization activities, including the alleviation of network fragmentation and use of genealogical information in reestablishing small world architectures. The workshops facilitated discussions about decolonization and cultural entropy, with an emphasis on empowering leadership to identify and align potential sources of social capital to capacity building initiatives. Deliverables included oral presentations, cited references, and identification of community members central in both physical and electronic Ktunaxa social networks.
- *Producer: Media Deepening & Organizational Development Project (2013)*. Implemented the Ktunaxa Nation Council's media consumption project, which instantiated connective leadership through design, production, and dissemination of short videos addressing Indigenous cultural entropy. Media was designed to connect Ktunaxa community members to Ktunaxa cultural information, including genealogical, historical and ceremonial data. Additionally, the project connected individual community members to others, mediated artifacts and jointly negotiated foundational information. Deliverables included a Dropbox and Vimeo channel for distributing workshop materials.
- *Facilitator, Leadership Through Trauma Initiative (2012)*. Designed and conducted a series of community level workshops addressing symptoms of collective cultural trauma. The goal of the workshops was to examine contemporary obstacles to resilience outcomes related to divergent organizational values. The focus of the workshops was to propose methods for closing structural holes and meshing cultural differences between administrative/ management personnel and community members. Deliverables included online social network tools for identifying vulnerability attractors and organizational charts to clarify communication and responsibility.
- *Coordinator: Ktunaxa Nation Council Collaborative Online Research Project (2012-2014)*. Coordinated the design and execution of a collaborative research project between multiple quantitative and qualitative researchers via DropBox, SugarSync, and ViewWise shared folder systems. The data included 8000+ pages of anthropological resources (ethnographic, linguistic, archaeological, ethnobotanical, etc.). The ultimate purpose of the project was to boost the efficiency of scarce research resources and to connect individual researchers to useful related material. Internally generated triangulation activities will be presented at the 2012 Journal of Science in Society conference at UC Berkeley.
- *Developer/Administrator: Wupnik' Natanik Online Network (2011-2013)*. Prepared Java templates to host an online social network based on a Indigenous speech community. Also managed beta testing team and coordinated implementation of suggested revisions. The site incorporates Unicode font resources, multimedia resources, and collaborative authoring opportunities. Key developments included improved font reliability and critical revision of the user experience. Recursive aspects of collaboratively generated

improvements were presented at MIT's CI2012 Annual Conference.

- *Administrative Reorganization Consultant: Lower Kootenay Band (2012-2012)*. Reviewed all aspects of existing LKB administrative, HR, and communication policies. Emphasis was placed on exploring disparities between organizational charts and staff social network graphs, and proposing optimal structural changes to reduce workplace tensions. Key developments included demonstration of institutional drift and contributing environmental factors.
- *Documentarian: Horsethief Productions (1996-present)*. Managed, planned, executed, produced, and edited all aspects of documentary film production, placing emphasis on educational presentations and cultural preservation endeavors. A production reel is available upon request. Clients and projects included:
 - Native American Rights Fund: yaka·kiᑭ ᑭᑭᑭᑭᑭᑭᑭᑭ: The Place Where Water Flows From. An initial ask for potential funders to contribute to a larger Native American Rights Fund video detailing one of the only successful legal cases regarding Native American religious freedom and site specific considerations.
 - Lower Kootenay Band: kwistaᑭᑭᑭᑭᑭᑭᑭᑭ: Seven Days with the Chief. A documentary focusing on the challenges of Indigenous leadership in 2018, including family challenges, political and legal considerations and mental health.
 - Ktunaxa Voice: Indicators and Outcomes – A Discussion of Crucial Ktunaxa Cultural Themes. The purpose of this video was to assist in conversations where Ktunaxa cultural beginners are seeking to develop cultural and linguistic competencies. It was designed for cross-cultural, foster parent and child-in-care environments.
 - Ktunaxa Nation Council: KNC Social Investment Sector New Practitioner Onboarding Videos — The purpose of this video was to provide new healthcare, family support and research technicians with “cultural basics” to operate from. you should know about the way we communicate before you try to communicate with us.
 - Spokane Tribe of Indians: The Brisbois Brothers and the Construction of the Grand Coulee Dam. A brief documentary on the recollections of Dan and Joe Brisbois, including tribal peoples' contributions to construction of the dam, the impacts on the salmon fishery, and culture of the Spokane Tribe.
 - Colville Confederated Tribes: Legends and Landscapes – Memoirs of Tom Louie. A brief documentary on the memories, stories and legends along Lake Roosevelt by Tom Louie.
 - Colville Confederated Tribes: Tribal Impacts – The Grand Coulee Dam and the Colville Confederated Tribes. A brief documentary on the generalized impacts of the Grand Coulee Dam on the culture and traditions of the Colville Confederated Tribes.
 - Colville Confederated Tribes: Kettle Falls – Recollections of the Grand Coulee Dam and Lake Roosevelt. A brief documentary regarding the Colville Confederated Tribes and importance of and subsequent loss of the Kettle Falls Fishery.
 - Confederated Salish and Kootenai Tribes of the Flathead Indian Reservation: The Kootenay River – The Blood and the Veins. A brief documentary on the role of the Kootenay River, and its wetlands, in the language, culture and history of the Ktunaxa people.
 - Confederated Salish and Kootenai Tribes of the Flathead Indian Reservation: Yaᑭᑭᑭᑭᑭᑭᑭᑭᑭ – Where the Glaciers Are. A brief documentary on the activities of the Kootenai People in Glacier National Park, to be played at the visitor's center.
- *Director: Traditional Use Site Inventory Project (1996-1997)*. Facilitated a systemic investigation of Ktunaxa land use practices, Ktunaxa placenames, and Indigenous knowledge of traditional resources. Responsibilities included facilitating group discussions, conducted individual interviews, and coordinated staff recording activities.
- *Researcher: Ktunaxa/Kinbasket Intertribal School System (1994-1995)*. Conducted several research initiatives including organization of archival resources, documented field observation activities, and conducted interviews with Ktunaxa community cultural

consultants regarding Indigenous Ways of Knowing and Ktunaxa placenames.

Additional Media Work

- Colonization and Indigenous Resilience... TED Talk. TEDx Nelson, April 2017. The Ktunaxa Nation branded version of this video is available here: <https://vimeo.com/249222853>
- On Secrets: Using secrets to build boundaries between survivors. PivotTalk; The Spokane We Would Like to see. May 2017.

Book Publications

- Horsethief C. P. (2014). Emergent complex behavior in Social networks: Examples from the Ktunaxa speech community. Cranbrook, BC: Ktunaxa Nation Council. Both the physical and Kindle versions of the text can be found on Amazon.com.

Book Chapters

- Horsethief C. P. (2020). Leadership Development for Ktunaxa youth: Command structure versus the Crazy Dogs. Revised article in-press, in *Global servant-leadership: Wisdom, Love and legitimate power in the age of chaos*. Lanham, MD: Lexington Books.

Academic Journal Publications

- Horsethief C. P. (2014). Emergent complex behavior in Social networks: Examples from the Ktunaxa speech community. Cranbrook, BC: Ktunaxa Nation Council.
- Horsethief C. P. (2013). Leadership Development for Ktunaxa youth: Command structure versus the Crazy Dogs. *International Journal of Servant-Leadership* (7)4. Gonzaga University/State University of New York.
- Horsethief C. P. (2013). Re-differentiation as Collective Intelligence: The Ktunaxa language online community. MIT Collective Intelligence 2012 Proceedings. Cambridge, MA; The Massachusetts Institute of Technology. Stable Link: <http://arxiv.org/abs/1204.3891>

Keynote Conference Presentations

- Preserving Indigenous Context in Health Research. 2019 IHS Partnership Conference. June 13, 2019. Spokane Convention Center, Spokane, WA.
- One Truth About Reconciliation: Indigenous Context and Nuance Matter. Learning Through Intercultural Intersections 2019. March 15, 2019. Thompson Rivers University, Kamloops, BC. This video is available here: <https://vimeo.com/358554172/e10f666ac4>
- Reconciliation in the Age of Reconciliation: Promoting Resilience in Rural Communities. Building Intersections: 2018 Rural Health Services Research Conference, May 31, 2018, Nelson, BC. This video is available here: <https://vimeo.com/273149613>
- Reconciliation, Information and Resilience. 2017 Native American Heritage Month Celebration, Central Intelligence Agency, November 15, 2017, McClean, VA.
- Reconciliation and Rural Development: A Ktunaxa case study. Canadian Rural Revitalization Foundation's Different By Design conference, September 2017, Nelson, BC.
- On Activism, Water Protectors, Self-deployed Vets and the Dakota Access Pipeline. Cultural Resource Protection Summit, May 2017, Suquamish, WA.
- Why Discuss Connection and Leadership? Applications in American Indian Business Leadership. American Indian Business Leaders Annual Conference, April 2017.
- Reconciliation in the Age of Reconciliation. Cultural Resource Protection Summit, May 2016, Suquamish, WA.
- Culture, Stability and Change: From colonization to Resilience. Grand Ronde Culture and History Summit, October 2016, Grand Ronde, OR.
- Collective Trauma, New Resources and Old Tools of Dispossession: Why Native Peoples struggle to differentiate between data as empowering and data as dispossessing. Cultural

Resource Protection Summit, May 2016, Suquamish, WA.

- Why Discuss Connection and Leadership? A discussion of Connective Leadership Theory and dynamics in Native American communities. American Indian Business Leaders 2016 Annual Conference April 2016, Phoenix, AZ.
- Visualizing Social Media Advertising: www.fn-apparel.com as a case study. American Indian Business Leaders 2015 Annual Conference, April 2015. Albuquerque, NM.
- Visualizing Social Media Advertising: A presentation of network visualizations from Native social networks, as well as data drawn from market research to demonstrate increasing social capital. American Indian Business Leaders 2015 Annual Conference. Albuquerque, NM.
- Visualizing identity: Examples from First Nations social networks. Presented as the Keynote address at Selkirk College's Strengthening Our Relations Regional Aboriginal Youth and Educators Conference. Castlegar, BC. This video is available here: <https://vimeo.com/69260394>

Featured Research Presentations

- Horsethief, C. P. (2019). Contemporary Considerations in Indigenous Education, Reconciliation and the Ktunaxa Nation. Invermere-Kimberly School District teachers professional development event Kimberly, BC.
- Horsethief, C. P. (2019). Financial Literacy and Elevator Pitches: Insights from an Indigenous Small Business Entrepreneur. An MBDA Bootcamp workshop for Kauffman & Associates, Inc. Spokane, WA.
- Horsethief, C. P. (2016). Collective trauma & collective resilience: Insights from the Ktunaxa Nation. A presentation to the KKFSS Cultural Conference. October 2017. Cranbrook, BC.
- nupika wu?u: A discussion of Ktunaxa history by Chief Jason Louie and Professor Christopher Horsethief. Kootenay-Boundary BCSTA AGM Ainsworth Hot Springs Annual General Meeting, September 2017, Ainsworth, BC.
- nupika wu?u and changing difficult history: A presentation to the Retallack Lodge. July 2017, Ainsworth, BC.
- Conversation and Reconciliation: Ktunaxa voice over the past century. Ktunaxa Nation Council Cultural Networking Day, October 2016, Cranbrook, BC.
- Culture, Antipistemology & Conversation: Reconciliation... in the age of reconciliation. College of the Rockies Faculty Welcome Back, September 2016. Cranbrook, BC.
- Thoughts on Resilience: A Ktunaxa case study. Indigenous Speakers Series, Lower Kootenay Indian Band, May 2016, Creston BC.
- Why Discuss Connection and Leadership? A exploration of Connective/Toxic Leadership theories in Native American communities. American Indian Business Leaders 2016 Annual Conference April 2106, Phoenix, AZ.
- Visualizing structure & agency through social network analysis: A postcolonial case study. Center for Excellence in Indigenous Health, March 2015, University of British Columbia. Vancouver, BC. This video is available here: <https://vimeo.com/125317926>
- Indicators & outcomes: Comparisons of Federal and community based indicators with respect to participant engagement and efficacy. First Nations Health Council, March 2015, Musqueam Cultural Center. Vancouver, BC.
- Systemic boundary violations as barriers to the Beloved Community. Presented at the MLK Luncheon Series, Union Institute & University Academic Residency, 2014. Erlanger, KY.
- Visualizing social structure & social network agency: A postcolonial case study. Faculty Research Presentation, Union Institute and University Academic Residency, 2014. Erlanger, KY.

Peer-reviewed Conference Presentations

- The Dance of Story and Culture: Who Leads, Who Follows: Do stories create our culture or does culture dictate the stories we tell? 71st Annual Conference on World Affairs, Boulder CO. April 9, 2019.
- Guest lecture – Introduction to Native American and Indigenous Studies: Contemporary issues in Language Revitalization. 71st Annual Conference on World Affairs, Boulder CO. April 10, 2019.
- Wisdom Worldwide: How cultures define the concept of wisdom. 71st Annual Conference on World Affairs, Boulder CO. April 11, 2019.
- Expressing Indigenous Knowledge and Culture Through Arts and Language. 71st Annual Conference on World Affairs, Boulder CO. April 11, 2019.
- Guest lecture – Native American and Indigenous Studies Seminar: Thinking with one heart and Many Ways of Knowing. 71st Annual Conference on World Affairs, Boulder CO. April 12, 2019.
- Past the Turing Test: The Future of Artificial Intelligence: From self-driving cars to Google assistant... how do these developments work, where are they heading, and what does this mean for humanity? 71st Annual Conference on World Affairs, Boulder CO. April 12, 2019.
- What You Know Depends on Where You Live: Leveraging cultural traditions to generate scientific breakthroughs. 71st Annual Conference on World Affairs, Boulder CO. April 12, 2019.
- Life in the 22nd Century: Conflicting forces are driving us toward the 22nd century. 71st Annual Conference on World Affairs, Boulder CO. April 13, 2019.
- Traditional Indigenous Knowledge as a Base for Resilience: A Ktunaxa Nation Case Study. Selected for Round Table Presentation at the 2017 He Manawa Whenua Indigenous Research Conference. Hamilton, NZ.
- Indigenous Data and Information Sovereignty. Research Data Alliance. 8th Annual Plenary Meeting 2016. Denver, CO.
- Trust, Openness & Limits in First Nations Communities. Invitation only Oral Presentation at the International Data Forum, 2016 International Data Week. Denver, CO.
- Educational Resources for Learning Post-Collective Trauma: A community level case study. Selected for Video Presentation at the 17th Annual International Leadership Association Conference. Barcelona, ESP.
- Leadership and cultural entropy: Developing post-crisis psychodynamics. Selected for Oral Presentation at the 16th Annual International Leadership Association Conference. San Diego, CA. This presentation is available on vimeo.com at: <https://vimeo.com/78368558>
- Visualizing collective intelligence in a problem-solving network. Selected for Oral Presentation at the 35th Annual Conference of the International Network of Social Network Analysts. Tampa, FL.
- Leadership, resilience & cultural entropy: An example from decolonization studies. Selected for Oral Presentation at the 15th Annual International Leadership Association Conference. Montreal, Quebec.
- Meta-vertex creation in online community building: An extension of Dooley's meta-agents in the context of online communities. Selected for oral presentation at Sunbelt 33rd Annual Conference of the International Society of Social Network Analysts. Hamburg, Germany.
-

- **Complex Network Activity in the Ktunaxa Speech Community.** Selected for oral presentation at the 47th Annual International Conference on Salish and Neighbouring Languages Conference. Cranbrook, BC.
- **Re-Differentiation As Collective Intelligence: The Ktunaxa Language Online Community.** Selected for oral presentation at the Collective Intelligence 2012 conference. Cambridge, MA.
- **Emergence of Scale Free Architectures in the Ktunaxa Online Language Community.** Selected for oral presentation at Sunbelt 32nd Annual Conference of the International Society of Social Network Analysts. Redondo Beach, CA.
- **What's in a baptismal name? ...if you're First Nations? ...and not Christian?** Selected for oral presentation at the 109th Annual Conference of the Pacific Ancient and Modern Language Association, Claremont CA.
- **New Worlds and Old Values: Discourse and Neologism in the Ktunaxa Language.** Selected for oral presentation at the 2011 Annual Conference of the International Society for Language Studies, Orenjasted, Aruba.
- **Emergent Behavior in the Ktunaxa Language Social Network: Implications for Leadership.** Selected for oral presentation at the 2011 Seattle University/Gonzaga University Leadership Conference, Seattle, WA.

Education

- *Doctoral of Philosophy in Leadership Studies, Gonzaga University (2012).*

Specific areas of research include open systems, complex adaptive systems, organizational change, analysis of cultural systems, and content analysis of patterned communication. Both candidacy and dissertation successfully defended on first attempt. Official transcript posted June 29, 2012.

- Candidacy paper title: *Leadership Development for Today's Ktunaxa Youth: Command Structure Versus the Crazy Dog Society.*
- Dissertation title: *Emergent Complex Behavior in Social Networks: Examples from the Ktunaxa Speech Community.*

- *Master of Arts in Applied Economics, School of Economic Sciences, WSU (2009).*

Research interests included First Nations economic development, human capital maximization, and statistical investigation of First Nations community well-being. Successfully defended thesis on first attempt.

- Thesis topic: *An Econometric Analysis of Official Development Assistance Efficacy Pre- and Post- Cold War.*

- *Bachelor of Arts, Fairhaven College, Western Washington University (1994).*

Coursework focused on First Nations and Native American social issues, federal and local policy, and economic development.

- *Master of Arts in Applied Linguistics, Department of Linguistics, UMASS Boston (ongoing, estimated graduation date, May 2020).*

I advocate life-long learning. In 2016 I started the UMASS online program as a half-time student. My completed coursework includes psycholinguistics, phonology, and race and culture in language studies. Thesis research will focus on technology, app development, Indigenous research methodologies and language revitalization.

- Proposed thesis topic: *Technological Mediation and the Noticing Hypothesis: A case study in the Ktunaxa speech community. A video of my current MA Thesis pitch is here: <https://vimeo.com/336784103/6b52488226>*

Graduate & Post-doctoral Committees Served On

- *Sana Shahram, Post-doctoral Fellowship, University of Victoria (2017).*
 - I am currently co-supervisor of Sana's post-doctoral research. Currently she is focusing on innovation and development with respect to health policy and delivery in Indigenous communities. Specifically Sana is facilitating the application for, the Indigenous and Institutional ethics reviews regarding, and administration of a Canadian Institutes of Health Research Catalyst Indigenous Approaches to Wellness Research Grant.
- *Rebecca Sarver, Doctoral of Philosophy, Union Institute & University (2016).*
 - I am currently on Rebecca's dissertation committee. Her introduction, literature review and methodology chapters are complete and approved. She is currently conducting data gathering and analysis. Her topic is phenomenological awakening to the performance of whiteness in leadership mid-life.
- *Ronda Cole Gentry, Doctoral of Philosophy, Union Institute & University (2015).*
 - I served on Ronda's Dissertation Committee from June 2014 to final defense in June 2015. Her dissertation, entitled "Cross-Cultural Conversations and Community Leadership: Creating pathways for First-Generation Appalachian Students and Colleges" was approved on first attempt.
- *Wendy Haley, Masters of Arts in Social Work, University of Victoria (20015).*
 - I served on Wendy's Thesis Committee from June 2014 to final defense in August 2015. Her thesis, entitled "De-Colonizing Post Secondary Education: Using Ktunaxa students experiences to inform decolonization processes of post secondary students" was approved on first attempt.

Other Research Grants Received

- *Non-obvious Pattern Recognition in the Ktunaxa Archival Collection (2013)* Received \$1,800.00 to explore a subset of the Ktunaxa Archives via the AntWord Profiler and WEKA data mining software, and provided potential uses for word frequency counts and decision trees. The contact person is Gwen Phillips, KNC Director Governance Transition: gphillips@ktunaxa.org.
- *Ktunaxa Language Social Networking Project (2012)* Received \$4,000.00 for the design and implementation of an online social network. The goal was to identify successful strategies for facilitating group discussions of language and cultural materials. The contact person is Melanie Sam, KNC Director Traditional Knowledge and Language Program: msam@ktunaxa.org.
- *National Philosophical Society (2011)* Received \$2,500.00 for the Phillips Fund Grant for Native American Research. The topic was "Factors of Change in Native American Languages." The contact person is Linda Musumeci, Director of Grants and Fellowships: LMusumeci@amphilsoc.org.

Graduate Assistantships

- *Graduate Assistant, Doctoral Program in Leadership Studies (2009-2011)* Planned, executed, and delivered digital media for the Doctoral Program (DPLS). The productions were designed to share the mission of the DPLS with the leadership studies community at large, as well as prospective students.
- *Research & Teaching Assistant, School of Economic Sciences, WSU (2007-2009)* Responsible for assisting primary teaching efforts of SES faculty and staff for *Theory of the Firm* (twice) and *Introduction to Macroeconomics* (twice). Tasks included planning and delivering recitation lectures, course administration, and delivery of Aplia materials.

Awards

- Nominated for the Faculty Excellence in Teaching Award, Union Institute and University, 2014. Placed runner up.
- Doctoral Program in Leadership Studies Graduate Assistantship, 2010-2011, Gonzaga University.
- Chateau St. Michelle Native American Scholarship 2008, Washington State University.
- Plateau Native American Scholarship 2008 and 2009, Washington State University.
- Marriott-Minority Achievement Program Scholarship, 1993-1994, Western Washington University.

Professional Memberships

- Member, International Society for Language Studies, 2010-2012
- Member, International Network of Social Network Analysts, 2012-2015
- Member, International Leadership Association, 2013-2017.

Indigenous Language iOS Apps – In Release (or in maintenance/not App Store visible)

- *Osage Keyboard. In release: estimated release date September 1, 2018. Current beta version 4.6. Size 2.5 MB.*
Currently available in iTunes. The Osage Keyboard App adds the Osage Unicode 9 phonetic characters to your iOS device's keyboard choices. When the app is installed a secondary keyboard allows users to text/iMessage, Tweet, Post and Update in the Osage language.
- *Cree School Board Syllabic Keyboard. Released: Feb 23, 2016. Current version 2.9.12 Size 3.66 MB.*
Currently available in iTunes. The Cree School Board app adds the syllabic unicode 8 phonetic characters to your iOS device's keyboard choices. When the app is installed a secondary keyboard allows users to text/iMessage, Tweet, Post and Update in the Cree language.
- *KtunaxaFont. Released: Jan 06, 2015. Current version 1.2.1. Size 2.5 MB.*
Currently available in iTunes. The KtunaxaFont App adds the Ktunaxa phonetic keyboard to your iOS device's keyboard choices. When the app is installed a secondary keyboard allows users to text/iMessage, Tweet, Post and Update in the Ktunaxa language.
- *SalishFont. Released: Jan 18, 2015. Current version 1.0. Size 2.6 MB.*
Currently available in iTunes. The SalishFont App adds 2 Salish phonetic keyboards to your iOS device's keyboard choices. When the app is installed secondary keyboards allows users to text/iMessage, Tweet, Post and Update in a variety of Interior Salish languages, including Spokane, Okanagan, Bitterroot Salish, and Kalispel.
- *PhoneticFont. Released: Jan 28, 2015. Current version 1.0. Size 3.0 MB.*
Currently available in iTunes. The PhoneticFont App adds several phonetic keyboards to your iOS device's keyboard choices. When the app is installed secondary keyboards allows users to text/iMessage, Tweet, Post and Update in the International Phonetic Alphabet character set. *(Currently Removed for maintenance)*
- *Western Cree Keyboard. Released: Feb 04, 2015. Current version 1.0. Size 2.8 MB.*
Currently available in iTunes. The Western Cree Keyboard App was designed to allow users to enter Western Cree Syllabics into iOS devices, including iPhones and iPads running iOS 8 or later. This adds the ability to type syllabic symbols directly into your device's text fields, including word processing, note taking, social media, and text messaging apps. *(Currently Removed for maintenance)*

- *Eastern Cree Keyboard. Released: Feb 04, 2015. Current version 1.0. Size 2.9 MB.*
Currently available in iTunes. The Eastern Cree Keyboard App was designed to allow users to enter Eastern Cree Syllabics into iOS devices, including iPhones and iPads running iOS 8 or later. This adds the ability to type syllabic symbols directly into your device's text fields, including word processing, note taking, social media, and text messaging apps. (Currently Removed for maintenance)
- *Maori Font Keyboard. Released: Feb 06, 2015. Current version 1.0. Size 2.6 MB.*
Currently available in iTunes. The Maori Font Keyboard App adds the Maori phonetic keyboard to your iOS device's keyboard choices. When the app is installed a secondary keyboard allows users to text/iMessage, Tweet, Post and Update in the Maori language.
- *Warlpiri Font Keyboard. Released: Feb 06, 2015. Current version 1.0. Size 2.7 MB.*
Currently available in iTunes. The Warlpiri Keyboard App was designed to allow users to enter Warlpiri letters into iOS devices, including iPhones and iPads running iOS 8 or later. This app adds the ability to type Warlpiri directly into your device's text fields, including word processing/note taking, social media, and text messaging apps. (Currently Removed for maintenance)
- *Navajo Font Keyboard. Released: Feb 06, 2015. Current Version 1.0. Size 2.9.*
Currently available in iTunes. The Navajo Font Keyboard App adds the Navajo phonetic keyboard to your iOS device's keyboard choices. When the app is installed a secondary keyboard allows users to text/iMessage, Tweet, Post and Update in the Navajo language.
- *Cheyenne Font Keyboard. Released: Feb 06, 2015. Current version 1.0. Size 2.6 MB.*
Currently available in iTunes. The Cheyenne Font Keyboard App adds the Cheyenne phonetic keyboard to your iOS device's keyboard choices. When the app is installed a secondary keyboard allows users to text/iMessage, Tweet, Post and Update in the Cheyenne language. (Currently Removed for maintenance)
- *Lakota/Nakoda/Dakota Font. Released: Apr 28, 2015. Current version 1.0. Size 2.4 MB.*
Currently available in iTunes. The Lakota/Nakoda/Dakota Font Keyboard App adds the phonetic keyboard to your iOS device's keyboard choices. When the app is installed a secondary keyboard allows users to text/iMessage, Tweet, Post and Update in the Lakota/Nakoda/Dakota languages. (Currently Removed for maintenance)
- *Saanich Keyboard. Apr 28, 2015. Current version 1.1. Size 2.4 MB.*
Currently available in iTunes. The Saanich Keyboard App was designed to allow users to enter common phonetic characters into iOS devices, including iPhones and iPads running iOS 8 or later. This app adds the ability to type Saanich directly into your device's text fields, including word processing/note taking, social media, and messaging apps. (Currently Removed for maintenance)
- *Coast Salish Keyboard. Released: May 01, 2015. Current Version 1.2.1. Size 2.4.*
Currently available in iTunes. The Coast Salish Keyboard App adds the Coast Salish phonetic keyboard to your iOS device's keyboard choices. When the app is installed a secondary keyboard allows users to text/iMessage, Tweet, Post and Update in a variety of Interior Salish languages. (Currently Removed for maintenance)
- *Keres Keyboard. Released: May 01, 2015. Current version 1.0. Size 2.3 MB.*
Currently available in iTunes. The Keres Keyboard App was designed to allow users to enter common phonetic characters into iOS devices, including iPhones and iPads running iOS 8 or later. This app adds the ability to type Keres directly into your device's text fields, including word processing/note taking, social media, and messaging apps. (Currently Removed for maintenance)
- *Naskapi Keyboard. Released: May 01, 2015. Current version 1.0. Size 2.5 MB.*
Currently available in iTunes. The Naskapi Keyboard App was designed to allow users to enter Naskapi Syllabics into iOS devices, including iPhones and iPads running iOS 8 or later. This adds the ability to type syllabic symbols directly into your device's text fields, including word processing, note taking, social media, and text messaging apps. (Currently Removed for maintenance)

- *Muckleshoot Keyboard. Released: Jun 03, 2015. Current version 2.4.1. Size 2.5 MB.*
Currently available in iTunes. The Muckleshoot Keyboard App. was designed to empower users to enter Lushootseed phonetics into iOS devices, including iPhones and iPads running iOS 8.1 or later. This app adds the ability to type phonetic symbols directly into your device's text fields, including word processing/note taking, social media, and text messaging apps.
- *Ktunaxa Jigsaw Puzzles App. Released: September 29, 2015.*
This iPad App offers jigsaw puzzles featuring historic black and white images of Ktunaxa people in culturally appropriate settings. There are two difficulty settings that present the puzzle in 20 or 48 pieces to be dragged into place. The App also features a timer and a congratulations message in Ktunaxa for completed puzzles.
- *Ktunaxa Kyukyit App. Released: September 29, 2015.*
This App presents basic listen and learn curriculum for Second Language Acquisition of Ktunaxa phrases related to commonly used color references. The App combines low-impact/high-contrast visual cues, audio files and an interactive interface to support language retention.
- *Ktunaxa Coloring Book App. Released: September 29, 2015.*
This App presents 26 cultural images in a coloring book framework. Images are accompanied by the Ktunaxa words for the items in the images. The coloring brush can be set to a custom color and size, and the image can be saved to the iOS camera role or printed on local printers. The black PNG image linework is in a layer above the user coloring input. *(Currently Removed for maintenance)*
- *Ktunaxa Slide Puzzle App. Released: September 29, 2015.*
This App presents a traditional slide puzzle game with the goal of arranging randomized image pieces while limited to one degree of freedom. The App keeps track of the number of moves it takes the user to solve the puzzle. The images utilize themes from a basic Ktunaxa language listen and learn curriculum, including animal images, historic photos and common numbers. The game utilizes a 3x3, 4x4 and 5x5 puzzle scheme.
- *Muckleshoot Basics App. Jan 20, 2016. Current version 1.0. Size 244 MB.*
Currently in Apple Test Flight. This App presents basic listen and learn curriculum for Second Language Acquisition of the Muckleshoot dialect of the Lushootseed language. The App focuses on phrases related to the Muckleshoot alphabet, animals, numbers and colors. The App combines low-impact/high-contrast visual cues, high quality graphics and an interactive interface to support language retention.
- *Muckleshoot Match App. Jan 20, 2016. Current version 1.0. Size 29.9 MB.*
This App presents a matching card game featuring the Muckleshoot dialect of the Lushootseed language. The App presents a memory matching game designed to associate Muckleshoot phrases with images. The App combines low-impact/high-contrast visual cues, high quality graphics and an interactive interface to support language retention.

Indigenous Language Android Apps – Currently in maintenance/not Play Store visible

- *Ktunaxa Keyboard App. Released: Mar 3, 2015. Current version 1.0. Size 57 KB.*
Currently available in the Google Play. The Ktunaxa Keyboard App is an extension of the Android softkeyboard, which uses 3 keyboard views. The “QWERTY” keyboard appears as the standard Android version. However, the “SYMBOL” keyboard offers the characters required to type the Ktunaxa language, including the vowels (a, i, and u), the raised dot (·) used for long vowels, the consonants (k, l, voiceless l, m, n, p, q, s, t, x, w, and h), the x' (which adds a glottal marker above any consonant), and the gull glottal stop. The “SYMBOL+SHIFT” keyboard offers numbers (0-9) and standard punctuation and commonly used symbols (+, -, =, <, >, etc.).

- *Salish Keyboard. Released: Mar 8, 2015. Current version 1.0. Size 62 KB.*
Currently available in the Google Play. This App is an extension of the Android softkeyboard, which uses 3 keyboard views. The “QWERTY” keyboard appears as the standard Android keyboard. However, the “SYMBOL” keyboard offers the characters required to type various dialects of Interior Salish, including the vowels (a, e, i, o, u, á, é, í, ó, and ú), the consonants (c, h, k, l, t, λ, m, n, p, q, s, t, w, x, and y), the glottal stops (ʔ, ʕ), the x' (which adds a glottal marker above any consonant), the w (which adds the raised w after the previous letter), the ˘ (which adds a wedge to the previous character), and the ˙ (which adds the dot below the x). The x', w, ˘, and ˙ keys are used to make the Salish characters. The “SYMBOL+SHIFT” keyboard offers numbers (0-9) and standard punctuation and commonly used symbols (‘, ?, !, etc.).
- *Maori Keyboard App. Released: Mar 15, 2015. Current version 1.0. Size 54 KB.*
Currently available in the Google Play. This App is an extension of the Android softkeyboard, which uses 3 keyboard views. The “QWERTY” keyboard appears as the standard Android keyboard. However, the “SYMBOL” keyboard offers the characters required to enter text in the Māori language, including the vowels (a, e, i, o, u, ā, ē, ī, ō, ū), the consonants (h, k, m, n, ng, p, r, t, w, wh), as well as the high and low accents, the dash, and select punctuation. The “SYMBOL+SHIFT” keyboard offers the upper case versions of the Māori letters.
- *Muckleshoot Keyboard App. Released: May 29, 2015. Current version 1.0. Size 66 KB.*
Currently available in the Google Play. This App is an extension of the Android softkeyboard, which uses 3 keyboard views. The “QWERTY” keyboard appears as the standard Android keyboard. However, the “SYMBOL” keyboard offers the characters required to type the Muckleshoot dialect of Lushootseed. The first row of the SYMBOL Keyboard offers the following keys: w, z, a, ə, i, u, b, c and ć; The second row of the SYMBOL Keyboard offers the following keys: č, d, g, h, j, k, l, l̄ and t; The third row of the SYMBOL Keyboard offers the following keys: Ħ, m, n, p, q, s, š, t and w; and The fourth row of the SYMBOL Keyboard offers the following keys: x, y, ý, ˘ (the wedge modifier), ' (the accent modifier), ʔ and common punctuation. The ǰ is made by pressing the x then pressing the ˘ wedge modifier. The k̄, q̄, t̄ and w̄ are made by pressing the letter then pressing the ' accent modifier) One critical A/B variation is that these hard consonants utilize a grave accent rather than a comma accent.
- *Muckleshoot Basics App. June, 2016. Current version 1.0.*
This App presents basic listen and learn curriculum for Second Language Acquisition of the Muckleshoot dialect of the Lushootseed language. The App focuses on phrases related to the Muckleshoot alphabet, animals, numbers and colors. The App combines low-impact/high-contrast visual cues, high quality graphics and an interactive interface to support language retention. It is the iOS app ported to Android.