

# Indigenous Internet: Nuances of Native American Internet Use

Esther Showalter

University of California, Santa Barbara  
esh@cs.ucsb.edu

Nicole Moghaddas

University of California, Santa Barbara  
nmoghaddas@ucsb.edu

Morgan Vigil-Hayes

Northern Arizona University  
morgan.vigil-hayes@naui.edu

Ellen Zegura

Georgia Institute of Technology  
ezeg@cc.gatech.edu

Elizabeth Belding

University of California, Santa Barbara  
ebelding@cs.ucsb.edu

## ABSTRACT

We investigate Internet traffic logs on rural Native American reservations in California served by a tribally-owned Internet provider. The anonymous user browsing traffic and device preferences create unique failure patterns that reveal where connectivity is not well-served by standard networking technology. Geographical and cultural marginalization has led to distinctive Internet usage when connectivity is available. For instance, residents commonly visit websites that are not as popular in the wider United States; and mobile devices dominate web request traffic, often with content-heavy video and media downloads, despite sustaining a higher rate of failure than desktop devices. This statistical analysis of passive measurements avoids institutional and cultural biases and ensures continuing research will contribute to a decolonizing narrative of Native American informational practices and values. Based on our analysis, we propose follow-up research angles to better understand the technological and social drivers behind these findings in order to improve user experience in this, and similar, networks.

## CCS CONCEPTS

• Networks → Network performance analysis; Network measurement.

## KEYWORDS

Indigenous networks, performance evaluation, traffic inspection

### ACM Reference Format:

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## 1 INTRODUCTION

Between 2014 and 2016, urban areas of the United States (U.S.) saw the penetration of high speed cellular service rise from 81.9% to 90.5%. During the same time, penetration throughout tribal areas

remained a flat 64% while anecdotal reports put this number much lower [5]. Residents of U.S. tribal lands cannot assume constant connectivity nor the proximity of online content. In response to highly fluctuating connectivity conditions, along with the geographical and cultural isolation of many Indigenous American reservations, tribal communities develop nuances in Internet use that differentiate them from the more general American population [9, 10]. Understanding the differences that emerge from low-bandwidth, dispersed Internet use can help local Internet providers broaden Internet accessibility on tribal lands and increase the quality of use for America’s most rural residents.

In this project we analyze anonymous network traffic collected within the Tribal Digital Village network (TDV)<sup>1</sup>, a tribally-owned Internet service provider (ISP) founded in 2004 that brings access to homes, educational centers, and community hubs across 17 tribes in 13 Native American reservations in eastern San Diego county, California. Using traces collected over five weeks in February and March 2018 from seven distinct reservations, we characterize the way residents within these communities prefer to go online. This ongoing study has revealed new insights into the quality of connectivity experienced by TDV users by identifying access and usage patterns that may not be well-served by the standard network equipment configuration. Our findings include:

- The most popular websites visited by TDV users do not align with the most popular websites across the U.S.
- Mobile devices interact with more video and image download sites, while fixed-devices are more likely to interact with adware.
- Most connection failures are due to the originating device canceling the request.
- Mobile devices experience more failures than desktop devices across all brands.

## 2 RELATED WORK

The path to effective information and communication technologies (ICT) on sovereign lands within the U.S. depends on the determination of Native nations’ leaders to take control of the digital information flow surrounding indigenous social and political goals [4]. Indeed, the developers of TDV overcame many unusual geographic, economic, technological, and political struggles to take the initiative for their own Internet access and still continue the fight for reliable connectivity in the face of public disinterest [7].

Studies of Internet use in other marginalized communities include [2], [6], and [3]. Six weeks of web traffic from a primary

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<sup>1</sup><https://www.tdv.net>

# Native American Internet Guide

**John Crow, Martha Crow**



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*Indian Country Address Book* Martha Crow, 2000  
**Race After the Internet** Lisa Nakamura, Peter Chow-White, 2013-07-03  
In *Race After the Internet* Lisa Nakamura and Peter Chow White bring together a collection of interdisciplinary forward looking essays exploring the complex role that digital media technologies play in shaping our ideas about race  
Contributors interrogate changing ideas of race within the context of an increasingly digitally mediated cultural and informational landscape  
Using social scientific rhetorical textual and ethnographic approaches these essays show how new and old styles of race as code interaction and image are played out within digital networks of power and privilege  
*Race After the Internet* includes essays on the shifting terrain of racial identity and its connections to social media technologies like Facebook and MySpace popular online games like World of Warcraft YouTube and viral video WiFi infrastructure the One Laptop Per Child OLPC program genetic ancestry testing and DNA databases in health and law enforcement  
Contributors also investigate the ways in which racial profiling and a culture of racialized surveillance arise from the confluence of digital data and rapid developments in biotechnology  
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