Petra Nichols

Los Angeles,CA
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www.petranichols.com & more

Work Experiences / Published Papers

CSUN - NSF Teaching 'GIS Introduction to NSF students' - 2021

COVID-19 in Los Angeles: A Multivariate Analysis of Disease Infection Rates, Yearbook of the APCG, Vol.83, 2021

NOT JUST STOPS: Mapping Racially Biased Policing in the Antelope Valley, CSUN-NLSLA, 2021

CSUN - Student Research Assistant, Spring 2021

Psomas Field Data Specialist - February - July 2019

Anthony Nex Photography Photo Assistant - 2007- 2008

Parque Nacional de Galápagos,

Naturalist Guide & Marine Dive Guide, Galápagos Islands, Ecuador - 1993 - 2005

Geographic Information Science Projects

Spatial Analysis - Covid-19 Infection Rate Determinants

Land Classification - Land Usage Change Galápagos - Ecuador

Distribution Analysis - Los Angeles Public Trees and HOLC Map

Network Analysis - Cooling Centers in the San Fernando Valley

GWR - CA Enviromental Health Assessment

Volunteer

Pika Research - Research assistant

Bodie State Historic Park - History interpreter

Guiding tours to park visitors at Stamp mill and park

Theodore Payne Foundation

Help in Seed Lab collecting, storing and testing viable native seeds

Education

NASA DEVELOP, Ames California, Fall 2021
Using Remote Sensing to Detect the Frequency and Drivers of Red Tide Blooms in California to Assist in the Management of Human and Marine Exposure to Algal Toxins

California State University Northridge, Northridge, CA
NSF Data Science Program 2020-21

California State University Northridge, Northridge, CA
M.S., Geographic Information Science, 2019 - 2022

Santa Monica College, Santa Monica, CA
Certificate in Geographic Information Systems 2018 - 2019

Santa Monica College, Santa Monica, CA
Interaction Design Bachelor of Science, High Honors
Dean's Honor's List 2016 -2018

Santa Monica College, Santa Monica, CA
Photography Certificate - 2012

Universität zu Köln, Köln, Germany
Environmental Science - 1998-1999

Harvard University, Cambridge, MA
Business Class - 1990-1991

Universidad Complutense, Madrid, Spain
Estúdios Hispánicos - 1989-1990

Languages

German (native), English (fluent) and Spanish (fluent)

Spatial Data Analytics & Vis

ArcGIS Pro 2.9 / ArcGIS Map 10.7
   Online, StoryMaps, Business
   Analyst, Dashboard
Google Earth Engine
QGIS 3.16

Data Analytics Software

Python/Jupyter Notebook
RStudio

Certificates ESRI MOOC

Going Places with Spatial Analysis
Earth Imagery at Work
Cartography
Do it yourself Geo Apps
Spatial Data Science: New Frontier in Analytics

Skills

Microsoft Office, Google Apps
Adobe CS
   Photoshop, Lightroom
   llustrator, and InDesign

Prototyping Tools

Invision, Marvel , Adobe XD

Prototyping Skills

Responsive Design
CSS/HTML/Javascript
IxD/UX Principles/UI Design
Wireframing/Prototyping
Persona/Storytelling/Sketching
Photography