

# Chris Chan

## Sr. Manager, Content Development in Mathematics, Statistics, and Data Science

I'm a seasoned data science manager in the education technology space. With over 6 years of increasing leadership responsibilities, I seek to utilize my experience to solve complex business problems using data-driven processes and manage cross-disciplinary teams and cross-functional projects.



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## SKILLS

Project Management

Agile

Scrum

Curriculum Design

Content Development

Data Science

Python

R

NumPy

SciPy

Scikit-learn

Pandas

SQL

Machine Learning

TensorFlow

Data Visualization

Seaborn

Matplotlib

Ggplot2

Tableau

PowerBI

A/B Testing

Predictive Modeling

Excel

Pivot Tables

VBA



## WORK EXPERIENCE

### Sr. Manager, Content Development for Mathematics, Statistics, and Data Science

#### zyBooks: A Wiley Brand

11/2020 - Present

Campbell, California

##### Achievements/Tasks

- Lead print and digital publishing for the math, statistics, and data science disciplines accounting for over 20% of total revenue and 39% YoY growth for the non-CS zyBooks business group.
- Manage the 3-year content roadmap and budget, set KPIs, and communicate results to the executive leadership team.
- Work cross-functionally with the platform, marketing, and sales teams to launch new products and integrate tools like Jupyter Notebooks into the zyBooks platform.
- Responsible for providing research insights into new areas of growth for various disciplines, which includes developing new titles, identifying and tracking needle-mover projects, and product scoping with both internal and external stakeholders.
- Authored an interactive textbook for a survey course in Data Science that covers data preprocessing using SQL and Python, supervised and unsupervised learning, regression analysis, predictive modeling, neural networks, and ensemble methods.

### Content Lead, Mathematics

#### zyBooks: A Wiley Brand

08/2018 - 11/2020

Campbell, California

##### Achievements/Tasks

- Increased the head count of the mathematics team to 8 subject matter experts from an initial group of 2 hires.
- Established work deadlines and coordinate completion of activities using Agile methodology.
- Worked with internal and external stakeholders to deliver custom created content for partner institutions.
- Communicated with vendors to evaluate technology solutions for various products and titles.
- Increased the mathematics catalog from 1 title to 14 titles.
- zyBooks was acquired by Jon Wiley & Sons for \$56 million in 2019.



## WORK EXPERIENCE

### Content Developer, Mathematics

zyBooks: A Wiley Brand

05/2016 - 08/2020

Campbell, California

#### Achievements/Tasks

- Created learning and assessment items for mathematics titles.
- Created over 100 randomized programming activities and labs in Python.
- Responded to student and instructor feedback.
- Created curriculum and individual course mappings.
- Performed instructor demos.
- Hired an initial group of 2 subject matter experts and supervised 5 external authors.



## EDUCATION

### MA in Mathematics

San Francisco State University

01/2009 - 05/2011

San Francisco, California



## TEACHING EXPERIENCE

### Introduction to Statistics

West Valley College

08/2012 - 05/2014

#### Tasks/Achievements

- Used a simulation-based approach to teach statistics using web-based apps and packages.
- Supplemented lessons using statistical packages in Python and R, spreadsheets activities, and software such as StatCrunch.



## PUBLICATIONS

Book

### Data Science Foundations

Author(s)

Chan, C., Rissler, M., Schwab-McCoy, A., et al.

2022

zyBooks: A Wiley Brand

Book

### Quantitative Reasoning

Author(s)

Vahid, F., Chan, C., Berrier, H.

2019

zyBooks: A Wiley Brand

Book

### Linear Algebra

Author(s)

Chan, C., Bass, A., et al

2017

zyBooks: A Wiley Brand

Book

### Applied Statistics with Data Analytics

Author(s)

Sturdivant, R., Chan, C., et al

2016

zyBooks: A Wiley Brand

Book

### Applied Regression Analysis

Author(s)

Chan, C., Sturdivant, R., et al

2016

zyBooks: A Wiley Brand