



5 Courses

Functional Programming  
Principles in Scala

Functional Program Design in  
Scala

Parallel programming

Big Data Analysis with Scala  
and Spark

Functional Programming in  
Scala Capstone



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**Li Zhu**

has successfully completed the online, non-credit Specialization

# Functional Programming in Scala

This Specialization begins from the basic building blocks of the functional paradigm, first showing how to use these blocks to solve small problems, before building up to combining these concepts to architect larger functional programs. You'll see how the functional paradigm facilitates parallel and distributed programming, and through a series of hands on examples and programming assignments, you'll learn how to analyze data sets small to large; from parallel programming on multicore architectures, to distributed programming on a cluster using Apache Spark. A final capstone project will allow you to apply the skills you learned by building a large data-intensive application using real-world data.

*Martin Odersky* *Viktor Kuncak*  
*Heather Miller* *Aleksander Prokopec*

Martin Odersky,  
Professor  
Heather Miller, Research  
Scientist  
Viktor Kuncak, Associate  
Professor  
Aleksander Prokopec,  
Principal Researcher

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