Introduction

A brief history of functional analysis:

1900	Ivar Fredholm	Paper on integral equations Given kernel $K(x, y)$, find F for: $\int_a^b K(x,y)F(y)dy = g(x)$ or $F(x) - \int_a^b K(x,y)F(y)dy = g(x)$
1902	Henri Lebesque	Thesis on measure theory and integration
1906	David Hilbert	Paper on spectral theory
1906	Maurice René Fréchet	Thesis on metric spaces
1910-1	Marcel Riesz	Paper on $C[a, b]$ and $L^p[a, b]$
1922	Stefan Banach	Thesis on normed spaces
1928	Fréchet	Book on abstract spaces
1932	Banach	Book on linear operators