Ada Lovelace The Making Of A Computer Scientist

Ada LovelaceThe Making of a Computer Scientist
"Cherished Reader, Should you come upon Enchantress of
Numbers by Jennifer Chiaverini...consider yourself quite
fortunate indeed....Chiaverini makes a convincing case that
Ada Byron King is a woman worth celebrating."—USA
Today New York Times bestselling author Jennifer
Chiaverini illuminates the life of Ada Byron King, Countess
of Lovelace—Lord Byron's daughter and the world's first
computer programmer. The only legitimate child of Lord
Byron, the most brilliant, revered, and scandalous of the
Romantic poets, Ada was destined for fame long before her
birth. But her mathematician mother, estranged from Ada's
infamous and destructively passionate father, is
determined to save her only child from her perilous Byron
heritage. Banishing fairy tales and make-believe from the
nursery, Ada's mother provides her daughter with a
rigorous education grounded in mathematics and science.
Any troubling spark of imagination—or worse yet, passion
or poetry—is promptly extinguished. Or so her mother
believes. When Ada is introduced into London society as a
highly eligible young heiress, she at last discovers the
intellectual and social circles she has craved all her life.
Little does she realize how her exciting new friendship with
Charles Babbage—the brilliant, charming, and occasionally
curmudgeonly inventor of an extraordinary machine, the
Difference Engine—will define her destiny. Enchantress of
Numbers unveils the passions, dreams, and insatiable
thirst for knowledge of a largely unheralded pioneer in
computing—a young woman who stepped out of her
father's shadow to achieve her own laurels and champion

the new technology that would shape the future.
In a distant-future tale in which humanity has spread to
every system within five hundred light-years, the
inhabitants of an ancient starship enter orbit around a
promising Earth-like planet after a four-hundred-year
journey, but detect curious electromagnetic emissions that
reveal the existence of intelligent life. By the author of
Newton's Wake.
A masterful portrait of two remarkable women, revealing
how two turbulent lives were always haunted by the
dangerously enchanting, quicksilver spirit of that
extraordinary father whom Ada never knew: Lord Byron. In
1815, the clever, courted, and cherished Annabella
Milbanke married the notorious and brilliant Lord Byron.
Just one year later, she fled, taking with her their baby
daughter, the future Ada Lovelace. Byron himself escaped
into exile and died as a revolutionary hero in 1824, aged
36. The one thing he had asked his wife to do was to make
sure that their daughter never became a poet. Ada didn't.
Brought up by a mother who became one of the most
progressive reformers of Victorian England, Byron's little
girl was introduced to mathematics as a means of calming
her wild spirits. Educated by some of the most learned
minds in England, she combined that scholarly discipline
with a rebellious heart and a visionary imagination. As a
child invalid, Ada dreamed of building a steam-driven flying
horse. As an exuberant and boldly unconventional young
woman, she amplified her explanations of Charles
Babbage's unbuilt calculating engine to predict—as nobody
would do for another century—the dawn of the modern
computer age. When Ada died—like her father, she was
only 36—great things seemed still to lie ahead for her as a
passionate astronomer. Even while mired in debt from
gambling and crippled by cancer, she was frenetically

employing Faraday's experiments with light refraction to explore the analysis of distant stars. Drawing on fascinating new material, Seymour reveals the ways in which Byron, long after his death, continued to shape the lives and reputations both of his wife and his daughter. During her life, Lady Byron was praised as a paragon of virtue; within ten years of her death, she was vilified as a disgrace to her sex. Well over a hundred years later, Annabella Milbanke is still perceived as a prudish wife and cruelly controlling mother. But her hidden devotion to Byron and her tender ambitions for his mercurial, brilliant daughter reveal a deeply complex but unexpectedly sympathetic personality. Miranda Seymour has written a masterful portrait of two remarkable women, revealing how two turbulent lives were often governed and always haunted by the dangerously enchanting, quicksilver spirit of that extraordinary father whom Ada never knew.
Ada Lovelace, Poet of Science
How Ada Lovelace Lord Byron's Daughter, Started the Computer Age
Ada and the Engine
Understanding and Exploring Nature as Computation
Faster Than Thought
More Girls Who Rocked the World
Charles Babbage and the Quest to Build the First Computer
Traces the life of Ada Lovelace, Lord Byron's daughter, describes her mathematical education, and assesses her contributions to computer science Offers an illustrated telling of the story of Ada Byron Lovelace, from her early

creative fascination with mathematics and science and her devastating bout with measles, to the ground-breaking algorithm she wrote for Charles Babbage's analytical engine. As the British Industrial Revolution dawns, young Ada Byron Lovelace (daughter of the flamboyant and notorious Lord Byron) sees the boundless creative potential in the "analytic engines" of her friend and soul mate Charles Babbage, inventor of the first mechanical computer. Ada envisions a whole new world where art and information converge—a world she might not live to see. A music-laced story of love, friendship, and the edgiest dreams of the future. Jane Austen meets Steve Jobs in this poignant pre-tech romance heralding the computer age. From the world of Good Night Stories for Rebel Girls comes a story based on the real life of Madam C. J. Walker, America's first female self-made millionaire. Sarah is the first person in her family who wasn't born into slavery in Delta, Louisiana. But being free doesn't mean that Sarah doesn't have to work. She cooks, she cleans, she picks cotton, she

does laundry, and she babysits. And when she works, she wraps up her hair. One day, Sarah's hair starts to fall out! It's itchy, crunchy, patchy, and won't grow. Instead of giving up, Sarah searches for the right products. And then she invents something better than any shampoo or hair oil she's used before. Her hair grows and grows! That's when she decides to rebrand herself as "Madam C. J. Walker," and begins her business empire. Madam C. J. Walker Builds a Business is the story of a leader in the hair care industry, but it's also an inspiring tale about the importance of empowering women to become economically independent. This historical fiction chapter book includes additional text on Madam C. J. Walker's lasting legacy, as well as educational activities designed to encourage entrepreneurship. About the Rebel Girls Chapter Book Series Meet extraordinary real-life heroines in the Good Night Stories for Rebel Girls chapter book series! Introducing stories based on the lives of extraordinary women in global history, each stunningly designed chapter book features beautiful

illustrations from a female artist as well as bonus activities in the backmatter to encourage kids to explore the various fields in which each of these women thrived. The perfect gift to inspire any young reader!
A Female Genius
Ida M. Tarbell
A Computable Universe
Future Histories
The Story of Ada Lovelace
The Calculating Passion of Ada Byron
I, ADA

Follows the life of Ida Tarbell, the nineteenth-century author/journalist whose articles on the corrupt practices of John D. Rockeller and Standard Oil Company resulted in legislation against trusts.

This volume, with a foreword by Sir Roger Penrose, discusses the foundations of computation in relation to nature.It focuses on two main questions: What is computation? How does nature compute?The contributors are world-renowned experts who have helped shape a cutting-edge computational understanding of the universe. They discuss computation in the world from a variety of perspectives, ranging from foundational concepts to pragmatic models to ontological

conceptions and philosophical implications.The volume provides a state-of-the-art collection of technical papers and non-technical essays, representing a field that assumes information and computation to be key in understanding and explaining the basic structure underpinning physical reality. It also includes a new edition of Konrad Zuse''s OC Calculating SpaceOCO (the MIT translation), and a panel discussion transcription on the topic, featuring worldwide experts in quantum mechanics, physics, cognition, computation and algorithmic complexity.The volume is dedicated to the memory of Alan M Turing OCo the inventor of universal computation, on the 100th anniversary of his birth, and is part of the Turing Centenary celebrations.
"A fascinating look at Ada Lovelace, the pioneering computer programmer and the daughter of the poet Lord Byron." --
A hilarious, irreverent book about doing your own thing Meet Iggy Peck—creative, independent, and not afraid to express himself! In the spirit of David Shannon's No, David and Rosemary Wells's Noisy Nora, Iggy Peck will delight readers looking for irreverent, inspired fun. Iggy has one passion: building. His parents are proud of his fabulous creations, though they're sometimes surprised

by his materials—who could forget the tower he built of dirty diapers? When his second-grade teacher declares her dislike of architecture, Iggy faces a challenge. He loves building too much to give it up! With Andrea Beaty's irresistible rhyming text and David Roberts's puckish illustrations, this book will charm creative kids everywhere, and amuse their sometimes bewildered parents. Also from the powerhouse author-illustrator team of Iggy Peck, Architect, is Rosie Revere, Engineer, a charming, witty picture book about believing in yourself and pursuing your passion. Ada Twist, Scientist, the companion picture book featuring the next kid from Iggy Peck's class, is available in September 2016.

Ada, the Enchantress of Numbers

New Kind of Science

Enchantress of Numbers

Notes from the Book

With Interesting & Curious Anecdotes of Celebrated and Distinguished Characters Fully Illustrating a Variety of Instructive and Amusing Scenes ; as Performed Within and Without the Remarkable Difference Engine

What Ada Lovelace, Tom Paine, and the Paris Commune Can Teach Us About Digital Technology

Heroines from Ada Lovelace to Misty Copeland

Ada Byron, Lady Lovelace, was one of the first to write programs for, and predict the impact of, Charles Babbage's Analytical Engine in 1843. Beautiful and charming, she was often characterized as "mad and bad" as was her illustrious father. This e-book edition, Ada, the Enchantress of Numbers: Poetical Science, emphasizes Ada's unique talent of integrating imagination, poetry and science. This edition includes all of Ada's fascinating letters to Charles Babbage, 55 pictures, and sidebars that encourages the reader to follow Ada's pathway to the 21st century. A fun and feminist look at forgotten women in science, technology, and beyond, from the bestselling author of THE FANGIRL'S GUIDE TO THE GALAXY You may think you know women's history pretty well. But have you ever heard of. . . · Alice Ball, the chemist who developed an effective treatment for leprosy—only to have the credit taken by a man? · Mary Sherman Morgan, the rocket scientist whose liquid fuel compounds blasted the first U.S. satellite into orbit? · Huang Daopo, the inventor whose weaving technology revolutionized textile production in China—centuries before the cotton gin? Smart women have always been able to achieve amazing things, even when the odds were stacked against them. In Wonder Women, author Sam Maggs tells the stories of the brilliant, brainy, and totally rad women in history who broke barriers as scientists, engineers, mathematicians, adventurers, and inventors. Plus, interviews with real-life women in STEM careers, an extensive bibliography, and a guide to women-centric science and technology organizations—all to show the

many ways the geeky girls of today can help to build the
future. Table of Contents: Women of Science Women of
Medicine Women of Espionage Women of Innovation
Women of Adventure
"*The (mostly) true story of the first computer"--Jacket.
From the world of Good Night Stories for Rebel Girls
comes a story based on the exciting adventures of Ada
Lovelace: one of the world's first computer programmers.
Growing up in nineteenth century London, England, Ada
is curious about absolutely everything. She is obsessed
with machines and with creatures that fly. She even
designs her own flying laboratory! According to her
mother, Ada is a bit too wild, so she encourages Ada to
study math. At first Ada thinks: Bleh! Who can get
excited about a subject without pictures? But she soon
falls in love with it. One day she encounters a mysterious
machine, and from that moment forward Ada imagines a
future full of possibility—one that will eventually inspire
the digital age nearly two hundred years later. Ada
Lovelace Cracks the Code is the story of a pioneer in the
computer sciences, and a testament to women's
invaluable contributions to STEM throughout history.
Includes additional text on Ada Lovelace's lasting legacy,
as well as educational activities designed to teach simple
coding and mathematical concepts.
Wonder Women
25 Innovators, Inventors, and Trailblazers Who Changed
History
Learning the World
Ada Lovelace Cracks the Code
The Innovators

A Scientific Romance
Ada and the Number-Crunching Machine

Uses excerpts from letters, memoirs, and documents to recreate the life of Ada Byron, daughter of the English poet, and discusses her contributions to mathematics and her friendships with the leading mathematicians of the period

The early life of Ada Lovelace, the 19th-century mathematician who is considered by many to be the world's first computer programmer. Ada Byron is rich and clever, but she longs to be free. Free to explore all the amazing ideas that come to her imagination, like flying mechanical horses and stories inspired by her travels. Free to find love and passion beyond the watchful gaze of her mother and governesses. And free to learn the full truth about her father, the notorious Lord Byron. Then Ada meets a man whose invention might just change the world - and he needs her visionary brilliance to bring it to life . . . A wonderfully witty and poignant portrayal of the young life of Ada Lovelace, the 19th-century mathematician who is hailed as the world's first computer programmer.

This new biography tells for the first time the story of the woman who, alongside Charles Babbage, invented the world's first computer. The daughter of Lord Byron, Ada was the visionary who recognised the true potential of Babbage's of cog-wheel computer, The Analytical Engine. She demonstrated to the world that computers wouldn't merely be adding machines, but that they would be able to think. Ada and Babbage may have been colleagues, but they were also the closest of friends.

Though she was 20 years his junior, they develope lasting relationship that blossomed into romance. Babbage was a genius and Ada was a woman with a singular vision, unconstrained by her by her time. Here we learn of their friendship and extraordinary legacy. From the inspiring author of Girls Who Rocked the World comes another comprehensive collection of true, inspiring profiles of successful young women throughout history who made their mark on the world before turning twenty. Young women today crave strong, independent role models to look to for motivation. In the follow-up to the bestseller Girls Who Rocked the World, More Girls Who Rocked the World offers a fun and uplifting collection of influential stories with forty-five more movers and shakers who made a difference before turning twenty. From Annie Oakley and Queen Victoria to Malala Yousafzai and Adele—each with her own incredible story of how she created life-changing opportunities for herself and the world—you'll get to know these capable queens of empires and courageous icons of entertainment. Also included are profiles of gutsy teenagers who are out there rocking the world right now and personal aspirations from today's young women.
The (Mostly) True Story of the First Computer (Children's Biography Book, Kids Books, Age 5 10, Historical Women in History)
Ada's Algorithm
The Story of Ada Lovelace, the World's First Computer Programmer
The Bride of Science
The Making of a Computer Scientist

Ada Byron Lovelace and the Thinking Machine
"[Ada Lovelace], like Steve Jobs, stands at the intersection of arts and technology."—Walter Isaacson, author of The Innovators Over 150 years after her death, a widely-used scientific computer program was named "Ada," after Ada Lovelace, the only legitimate daughter of the eighteenth century's version of a rock star, Lord Byron. Why? Because, after computer pioneers such as Alan Turing began to rediscover her, it slowly became apparent that she had been a key but overlooked figure in the invention of the computer. In Ada Lovelace, James Essinger makes the case that the computer age could have started two centuries ago if Lovelace's contemporaries had recognized her research and fully grasped its implications. It's a remarkable tale, starting with the outrageous behavior of her father, which made Ada instantly famous upon birth. Ada would go on to overcome numerous obstacles to obtain a level of education typically forbidden to women of her day. She would eventually join forces with Charles Babbage, generally credited with inventing the computer, although as Essinger makes clear, Babbage couldn't have done it without Lovelace. Indeed, Lovelace wrote what is today considered the world's first computer program—despite opposition that the principles of science were "beyond the strength of a woman's physical power of application." Based on ten years of research and filled with fascinating characters and observations of the period, not to mention numerous illustrations, Essinger tells Ada's fascinating story in unprecedented detail to absorbing and inspiring

effect.

A highly engaging tour through progressive history in the service of emancipating our digital tomorrow Shortlisted for the Victorian Premier's Literary Award, Australia When we talk about technology we always talk about tomorrow and the future—which makes it hard to figure out how to even get there. In Future Histories, public interest lawyer and digital specialist Lizzie O'Shea argues that we need to stop looking forward and start looking backwards. Weaving together histories of computing and progressive social movements with modern theories of the mind, society, and self, O'Shea constructs a "usable past" that can help us determine our digital future. What, she asks, can the Paris Commune tell us about earlier experiments in sharing resources—like the Internet—in common? How can Frantz Fanon's theories of anti colonial self-determination help us build digital world in which everyone can participate equally? Can debates over equal digital access be helped by American revolutionary Tom Paine's theories of democratic, economic redistribution? What can indigenous land struggles teach us about stewarding our digital climate? And, how is Elon Musk not a future visionary but a steampunk throwback to Victorian-era technological utopians? In engaging, sparkling prose, O'Shea shows us how very human our understanding of technology is, and how when we draw on the resources of the past, we can see the potential for struggle, for liberation, for art and poetry in our technological present. Future Histories is for all of us—makers, coders, hacktivists, Facebook-users, self-styled Luddites—who find ourselves in a

brave new world.

Toole did research for more than eight years, burying herself in British archives and libraries to narrate and edit this extraordinary collection of letters written by Ada Lovelace. Not only do they outline Ada's ingenuity for the sciences, but they also enlighten us on all aspects of Lady Lovelace's multidimensional life: her passionate desire to flourish in a "man's world," her battle with drug addiction and chronic sickness, and her efforts as a mother and wife. Lovelace also had a reputation as a wild gambler and a lover. Ada was one of the first to write programs of instructions for Babbage's Analytical Engines, the famous precursors to the modern digital computer. Ada's letters are some of the classic founding documents of cybernetics and computer science, written nearly a century before ENIAC.

This illuminating biography reveals how the daughter of Lord Byron, Britain's most infamous Romantic poet, became the world's first computer programmer. Even by 1800s standards, Ada Byron Lovelace had an unusual upbringing. Her strict mother worked hard at cultivating her own role as the long-suffering ex-wife of bad-boy poet Lord Byron while raising Ada in isolation. Tutored by the brightest minds, Ada developed a hunger for mental puzzles, mathematical conundrums, and scientific discovery that kept pace with the breathtaking advances of the industrial and social revolutions taking place in Europe. At seventeen, Ada met eccentric inventor Charles Babbage, a kindred spirit. Their ensuing collaborations resulted in ideas and concepts that presaged computer programming by

almost two hundred years, and Ada Lovelace is now recognized as a pioneer and prophet of the information age. Award-winning author Emily Arnold McCully opens the window on a peculiar and singular intellect, shaped — and hampered — by history, social norms, and family dysfunction. The result is a portrait that is at once remarkable and fascinating, tragic and triumphant.

The Thrilling Adventures of Lovelace and Babbage
In a Village by the Sea
Madam C.J. Walker Builds a Business
The Case of the Missing Moonstone (The Wollstonecraft Detective Agency, Book 1)
A Selection from the Letters of Lord Byron's Daughter and Her Description of the First Computer
Mechanism of the Heavens
Poetical Science

New England blossomed in the nineteenth century, producing a crop of distinctively American writers along with distinguished philosophers and jurists, abolitionists and scholars. A few of the female stars of this era—Emily Dickinson, Margaret Fuller, and Susan B. Anthony, for instance—are still appreciated, but there are a number of intellectual women whose crucial roles in the philosophical, social, and scientific debates that roiled the era have not been fully examined. Among them is the astronomer Maria Mitchell. She was raised in isolated but cosmopolitan Nantucket, a place brimming with enthusiasm for intellectual culture and hosting the luminaries of the day, from Ralph Waldo Emerson to Sojourner Truth. Like many island girls, she was encouraged to study the stars. Given the relative dearth

of women scientists today, most of us assume that science has always been a masculine domain. But as Renée Bergland reminds us, science and humanities were not seen as separate spheres in the nineteenth century; indeed, before the Civil War, women flourished in science and mathematics, disciplines that were considered less politically threatening and less profitable than the humanities. Mitchell apprenticed with her father, an amateur astronomer; taught herself the higher math of the day; and for years regularly "swept" the clear Nantucket night sky with the telescope in her rooftop observatory. In 1847, thanks to these diligent sweeps, Mitchell discovered a comet and was catapulted to international fame. Within a few years she was one of America's first professional astronomers; as "computer of Venus"—a sort of human calculator—for the U.S. Navy's Nautical Almanac, she calculated the planet's changing position. After an intellectual tour of Europe that included a winter in Rome with Sophia and Nathaniel Hawthorne, Mitchell was invited to join the founding faculty at Vassar College, where she spent her later years mentoring the next generation of women astronomers. Tragically, opportunities for her students dried up over the next few decades as the increasingly male scientific establishment began to close ranks. Mitchell protested this cultural shift in vain. "The woman who has peculiar gifts has a definite line marked out for her," she wrote, "and the call from God to do his work in the field of scientific investigation may be as imperative as that which calls the missionary into the moral field or the mother into the family . . . The question whether women

have the capacity for original investigation in science is
simply idle until equal opportunity is given them." In this
compulsively readable biography, Renée Bergland
chronicles the ideological, academic, and economic
changes that led to the original sexing of science—now so
familiar that most of us have never known it any other
way. "The best thing in its line since Dava Sobel's
Longitude. Maria Mitchell and the Sexing of Science tells
a great, if too little known, story of an intellectual woman
in 19th century New England. And it is beautifully told: I
simply could not put it down. Anyone who cares about
women's education in America should read this
compelling and indispensable book." —Robert D.
Richardson, author of Henry Thoreau: A Life of the Mind,
Emerson: The Mind on Fire, and William James: In the
Maelstrom of American Modernism "Renée Bergland
recounts the story of Maria Mitchell's life and work in
glorious and careful detail. One feels and hears the
sounds of Mitchell's native Nantucket, her adopted
Vassar, and comes to understand how one of the
'gentler sex' advanced astronomy in her day." —Londa
Schiebinger, author of Has Feminism Changed Science?
"Following his blockbuster biography of Steve Jobs, The
Innovators is Walter Isaacson's revealing story of the
people who created the computer and the Internet. It is
destined to be the standard history of the digital
revolution and an indispensable guide to how innovation
really happens. What were the talents that allowed
certain inventors and entrepreneurs to turn their
visionary ideas into disruptive realities? What led to their
creative leaps? Why did some succeed and others fail?

In his masterly saga, Isaacson begins with Ada Lovelace, Lord Byron's daughter, who pioneered computer programming in the 184Os. He explores the fascinating personalities that cr eated our current digital revolution, such as Vannevar Bush, Alan Turing, John von Neumann, J.C.R. Licklider, Doug Engelbart, Robert Noyce, Bill Gates, Steve Wozniak, Steve Jobs, Tim Berners-Lee, and Larry Page. This is the story of how their minds worked and what made them so inventive. It's also a narrative of how their ability to collaborate and master the art of teamwork made them even more creative. For an era that seeks to foster innovation, creativity, and teamwork, The Innovators shows how they happen"--

A picture book biography of Ada Lovelace, the woman recognized today as history's first computer programmer—she imagined them 1OO years before they existed! In the early nineteenth century lived Ada Byron: a young girl with a wild and wonderful imagination. The daughter of internationally acclaimed poet Lord Byron, Ada was tutored in science and mathematics from a very early age. But Ada's imagination was never meant to be tamed and, armed with the fundamentals of math and engineering, she came into her own as a woman of ideas—equal parts mathematician and philosopher. From her whimsical beginnings as a gifted child to her most sophisticated notes on Charles Babbage's Analytical Engine, this book celebrates the woman recognized today as the first computer programmer. This title has Common Core connections. Christy Ottaviano Books Gift your kid the inspirational tale of Ada Lovelace!

Inspire strength, innovation, and unlimited possibilities. Are you looking for an inspirational book to inspire the inner genius of your kids? Can you imagine your little one having so much fun reading, they prefer reading over screen time? Then, you will love our child-friendly biography of Ada Lovelace! Use this exciting biography book to instill timeless values & principles in your child. This book consists of 5 parts: I: Illustrated biography - Printed in full color and written like a storybook, these 26 pages of engaging illustrations are sure to engage your little ones... (Warning: Reading could become addictive) II: Extended biography - Curated to deepen your child's knowledge about Ada Lovelace, our extended biography is also perfect for school reports... III: Gallery - Impress your little ones with an iconic photo of Ada Lovelace... IV: Glossary - Reinforce your child's learning with simplified explanations of advanced vocabulary... V: Muse Museum - Introduce your little ones to a myriad of other inspirational individuals in our book collection... VI: BONUS Education Guide - The perfect educational tool (downloadable pdf) to center a class around or to spark an enriching conversation just before bedtime... Age Specifications: This illustrated biography book of Ada Lovelace is perfect for boys and girls between 5 to 10 years old and it is awesome for any child (toddlers, preschool and kindergarten) who is interested in reading. Your kid will love it! About Ada Lovelace: Known as the "Enchantress of Numbers", Ada Lovelace was a visionary mathematician who was a forerunner of modern day computing. Challenging the gender-norms of her time, Ada Lovelace was a well-rounded

mathematician who not only pioneered women's
involvement in technology, but also blazed a trail for the
invention of computers a century before it was actually
built! An unheralded pioneer in technology, Ada Lovelace
and her accomplishments remain a huge inspiration to
women and technophiles to this day. "The more I study,
the more insatiable do I feel my genius for it to be." - Ada
Lovelace Wait no more! Scroll up now and click on the
"Buy Now" button to gift your kid the inspirational tale of
Ada Lovelace!
In Byron's Wake: The Turbulent Lives of Lord Byron's
Wife and Daughter: Annabella Milbanke and Ada
Lovelace
A Life and a Legacy
Maria Mitchell and the Sexing of Science
How Lord Byron's Daughter Ada Lovelace Launched the
Digital Age
A Symposium on Digital Computing Machines
Iggy Peck, Architect

**Ada Lovelace, the daughter of Lord
Byron was born in 1815 just after the
Battle of Waterloo, and died aged 36,
soon after the Great Exhibition of
1851. She was connected with some of
the most influential and colourful
characters of the age: Charles Dickens,
Michael Faraday, Charles Darwin and
Charles Babbage. It was her work with
Babbage that led to her being credited**

with the invention of computer programming and to her name being adopted for the programming language that controls the US military machine. Ada personified the seismic historical changes taking place over her lifetime. This was the era when fissures began to open up in culture: romance split away from reason, instinct from intellect, art from science. Ada came to embody these new polarities and her life heralded a new era: the machine age. Reissued to coincide with the bicentenary of Ada's birth, The Bride of Science is a fascinating examination of an extraordinary life offering devastating insight into the seemingly unbridgeable gulf between art and science, the consequences of which are still with us today.
She invents crazy contraptions, solves big sums, and reads all the books in the library. Although she may look like an ordinary little girl, Ada Lovelace is about to change the world. Zoë Tucker and Rachel Katstaller tell the amazing true story of a little girl who didn't go to school, but grew up to create the world's first computer

program.
"Moving from the wide world to the snugness of home and back out again, Village by the Sea tells the story of longing for the comforts of home"--
A portrait of early nineteenth-century mathematician Charles Babbage describes his efforts to construct the first computing machine more than one century before the invention of the modern computer. 22,500 first printing.
Who Says Women Can't Be Computer Programmers?
How a Group of Hackers, Geniuses, and Geeks Created the Digital Revolution
Byron's Legitimate Daughter
A Novel of Ada Lovelace
Ada Lovelace
The Woman Who Challenged Big Business - and Won!
The First Computer Programmer

Ada Lovelace (1815–1852) was the daughter of Lord Byron, a poet, and Anna Isabella Milbanke, a mathematician. Her parents separated when she was young, and her mother insisted on a logic-focused education, rejecting Byron's "mad" love of poetry. But Ada remained fascinated with her father and considered mathematics "poetical science." Via her friendship with inventor Charles Babbage, she became involved in "programming" his Analytical Engine, a precursor to the computer, thus becoming the world's first computer

programmer. This picture book biography of Ada Lovelace is a compelling portrait of a woman who saw the potential for numbers to make art.

Ada, Countess of Lovelace (1815-1852), daughter of romantic poet Lord Byron and his highly educated wife, Anne Isabella, is sometimes called the world's first computer programmer and has become an icon for women in technology. But how did a young woman in the nineteenth century, without access to formal school or university education, acquire the knowledge and expertise to become a pioneer of computer science?Although an unusual pursuit for women at the time, Ada Lovelace studied science and mathematics from a young age. This book uses previously unpublished archival material to explore her precocious childhood, from her ideas for a steam-powered flying horse to penetrating questions about the science of rainbows. A remarkable correspondence course with the eminent mathematician Augustus De Morgan shows her developing into a gifted, perceptive and knowledgeable mathematician. Active in Victorian London's social and scientific elite alongside Mary Somerville, Michael Faraday and Charles Dickens, Ada Lovelace became fascinated by the computing machines devised by Charles Babbage. The table of mathematical formulae sometimes called the 'first programme' occurs in her paper about his most ambitious invention, his unbuilt 'Analytical Engine'.Ada Lovelace died at just thirty-six, but her paper still strikes a chord to this day, with clear explanations of the principles of computing, and broader ideas on computer music and artificial intelligence now realised in modern digital computers. Featuring images of the 'first programme' and Lovelace's correspondence, alongside mathematical models, and contemporary illustrations, this book shows how Ada Lovelace, with astonishing prescience, explored key mathematical questions

to understand the principles behind modern computing. "The drama of Byron's marriage...culminated in the life and death of his daughter Ada... Her whole life was inexorably thwarted by her obsessive mother, from whom not even her marriage at nineteen to the devoted Lord King, later first Earl of Lovelace, could entirely free her. Ada's scientific gifts manifested themselves early, and some of her happiest experiences came when she was free to work with Charles Babbage, father of the modern computer, who had a high opinion of her talent... Against the background of the social, intellectual and moral attitudes of the early and mid-nineteenth centruy, this revealing account of an extraodrdinary and sinister family relationship and its predestined victim is wholly engrossing"--from jacket flaps. History, mystery, and science collide in a new series for middle-grade readers, perfect for fans of The Mysterious Benedict Society and Lemony Snicket! Jordan Stratford imagines an alternate 1826, where Ada Lovelace (the world's first computer programmer) and Mary Shelley (author of Frankenstein) meet as girls and form a secret detective agency! Lady Ada Byron, age eleven, is a genius. Isolated, awkward and a bit rude—but a genius. Mary Godwin, age fourteen, is a romantic. Adventurous, astute, and kind, Mary is to become Ada's first true friend. And together, the girls conspire to form the Wollstonecraft Detective Agency—a secret constabulary for the apprehension of clever criminals. Their first case involves a stolen heirloom, a false confession, and an array of fishy suspects. But it's no match for the deductive powers and bold hearts of Ada and Mary. Mystery fans will love this tween girl riff on Sherlock Holmes and John Watson. History buffs will be delighted to see all the real figures who play a role in this story and appreciate the extensive backmatter that helps separate truth from fiction. Parents and educators hoping to promote the STEM fields for

girls will be thrilled to have a series where two girls use math, science, and creative analytical thinking to solve crimes. But most especially--emerging readers will love this series filled with humor, action, intrigue and wonderful artwork from Kelly Murphy.
Sketch of the Analytical Engine invented by Charles Babbage ... with notes by the translator. Extracted from the 'Scientific Memoirs,' etc. [The translator's notes signed: A.L.L. ie. Augusta Ada King, Countess Lovelace.]
Ada's Ideas
An Astronomer Among the American Romantics
Dreaming in Code: Ada Byron Lovelace, Computer Pioneer
Ada, Countess of Lovelace
The Difference Engine
Ada