976)

A Appendix

We present below the annotations of 8 short biographies of 20th century scientists according to 5 human annotators, C-sanitize and a neural NER model (see paper for details). The annotation task¹ consisted of tagging text spans that could re-identify a person either directly or in combination with publicly available knowledge. The annotators were instructed to prevent identity disclosure, but otherwise seek to preserve the semantic content as much as possible.

The first five (gray) lines denotes the five human annotators, while the annotation in cyan corresponds to C-sanitise, and the annotation in blue to the neural NER model.

		vieli i i dillik	Tir (7 isieke	индр Пауг	иович Фрум		ber 24, 1895–1	viay ====
as a	a Russian/S	Soviet electr	ochemist,	member o	f the Russia	n Academy	of Sciences sin	nce
932	2, founder of	of the Russi				Elektrokhim	iya and receive	er —
f th	ne Hero of	Socialist La			ian Academ	y of Science	es' A. N. Frum	nkin
ısti	tute of Phy	sical Chem	istry and I	Electroche	mistry is nar	ned after hi	m. Frumkin w	as
orn	in Kishine	v, in the Be	ssarabia G	Sovernorate	e of the Russ	sian Empire	(present-day I	Mold
o a	Jewish fam	nily; his fath	er was an	insurance	salesman. H	is family m	oved to Odess	a, =
her	e he receiv	ed his prim	ary school	ling; he co	ntinued his o	education in	Strasbourg, a	- nd
en	at the Univ	rersity of Be	ern. Frumk	^	ublished art		red in 1914,	

¹The guidelines and annotated data are publicly available: https://github.com/anonymous-NLP/anonymisation

later, the seminal article "Electrocapillary Phenomena and Electrode Potentials" was
published. Frumkin moved to Moscow in 1922 to work at the Karpov Institute, under A.
N. Bakh. In 1930 Frumkin joined the faculty of Moscow University, where in 1933 he founded—an
would head until his death—the department of electrochemistry. During the Second World
War, Frumkin led a large team of scientists and engineers involved in defense issues.
This contribution did not save him from being dismissed in 1949 as the director of the
Institute of Physical Chemistry, when he was accused of "cosmopolitanism". Frumkin's
most fundamental achievement was the fundamental theory of electrode reactions, which
describes the influence of the structure of the interface between electrode and solution
on the rate of electron transfer. This theory has been confirmed and extended within
the framework of contemporary physical electron transfer models. Frumkin introduced the
concept of the zero charge potential, the most important characteristic of a metal surface.
Alessandro Volta's question—a topic of discussion for over 120 years—about the nature
of the EMF of electrochemical circuits was resolved using Frumkin's approach. Frumkin

developed the	frumkin isotherm, an ext	tension of the L	angmuir isotherm in describ	ing certain
		=		.1.1
adsorption pho	nomena. Frumkin's stud	dents developed	novel experimental methods	that would
in time, becom	e standard. Several appli	ed electrochemi	ical processes, including one	es related
to chemical so	urces of electrical power	r, industrial elec	trolysis, and anti-corrosion	
protection, we	re successfully developed	d under Frumki	n's supervision. Frumkin wa	s married
three times, ind	luding a brief first marri	iage to Vera Inb	er.	
2 Bashir Ra	noov			
ashir Iskandaro	rich Rameev (Russian: Б	башир Исканда _ј	рович Рамеев; formerly "Ra	meyev"
in English; 1 M	May 1918–16 May 1994)	was a Soviet in	ventor and scientist, one of t	he founders
		<u> </u>		
of Soviet comp	uting, author of 23 pater ====================================	nts, including th	e first patent in the field of	
			—a patent for the Automatic	Electronic
Digital Machi	ne (1948). Rameev's inve	entions paved th	e way for the development of	f a new
			the formation of a new bran	nch of
			ed in Rameev's invention of	the

electronic computer included: storing programs in computer memory, using binary code,
utilizing external devices, and deploying electronic circuits and semiconductor diodes.
The first publication about similar technology outside of the USSR appeared in 1949-1950.
Rameev also suggested that intermediate computation data be automatically printed on
punched tape and sent into the computer's arithmetic device for subsequent processing,
meaning that the processing of commands would be performed in the computer's arithmetic
device; this is usually referred to as the Von Neumann architecture. Of particular note
is Rameev's invention of diode-matrix control circuits, which were used to build his
first brainchild, the first serially manufactured Soviet mainframe "Strela" (1954).
In the 1950s, the diode-matrix control circuits were not widespread due to their significant
dimensions and high power consumption. However, with subsequent development of microelectronic
and the emergence of large-scale integrated circuits, which made possible to deploy tens
or hundreds of thousands of diodes and transistors in a single piece of silicon, the
concept of control circuits become vishle and commonly yead "Ctuals" communical
concept of control circuits became viable and commonly used. "Strela" computers carried

out calculations in nuclear physics, rocketry and space research. Notably, one of "Strelas"
was used to calculate "Sputnik" orbit trajectory. For the development of "Strela"
Rameev and his team were awarded the Stalin Prize of 1st degree, which was the highest
Soviet award at that time. Between 1956 and 1969, Rameev designed and oversaw the manufacturin

of 14 different computers including: the multi-purpose "Ural" computer series and the

specialized machines "Weather" ("Погода"), "Crystal" ("Кристалл"), "Granite"
("Гранит"), and "Coordinate" ("Координата"). Rameev's "famous computer family
'Ural' existed more than 15 years and had good chances to be one of the corner stones
<u> </u>
of future Russian computer engineering".
A.3 Brian Mcconaghy
Brian McConaghy (born 1963) is the founder of Ratanak International and a former Canadian
forensic scientist who left the Royal Canadian Mounted Police (RCMP) in order to dedicate
all his energies to ending child abuse and human trafficking in Cambodia. He had already
founded Ratanak International, in 1989, a Christian charity dedicated to helping the

people of Cambodia rebuild their country that for decades had been torn apart by civil
war, revolution and genocide. From 1990 onwards McConaghy and Ratanak partnered on projects —
that built clinics, hospitals and schools, opened orphanages, provided shelters for the
elderly and AIDS victims and ran and initiated emergency food distribution programs in
response to droughts and flooding in Cambodia. In 2004, these relief projects continued,
yet Ratanak's work also took on a whole new dimension by beginning to work on the front
lines in Cambodia on projects that rescue and rehabilitate children sold into sexual
slavery. McConaghy named the organization Ratanak, which means 'precious gem' in Khmer,
after he watched an 11-month-old Cambodian baby called Ratanak die because of a basic
lack of medical aid in John Pilger's documentary film Cambodia Year Ten. Since watching
this video McConaghy and Ratanak have been dedicated to preventing such needless suffering
and death in Cambodia. McConaghy grew up in Northern Ireland and his family emigrated
to Canada in 1978. He used to work for the Vancouver Forensic Laboratory as a firearm
and tool-mark examination specialist. After founding Ratanak International, he continued

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the child	sexual abuse	vicums in the	case of Do	naid Bakkei	:. He also did for	rensic
					-	
ork on the	e women murd	lered by Robe	ert Pickton,	testifying th	at Andrea Joesb	ury, Sereena
botsway,	and Mona Wil	lson had all be	een decapita	ated with a r	reciprocating sav	v. McConaghy
as the gue	st speaker at th	ne 2011 Mani	toba Prayer	Breakfast. I	He lives in Vanco	ouver with
	_					
s wife and	l two children,	both adopted	from Caml	bodia.		
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Freema	n Dyson					
	•	cember 1923	–28 Februa	ry 2020) wa	s a British-Ame	rican theoretic
	•	ecember 1923	–28 Februa	ry 2020) wa	s a British-Ame	rican theoretic
	•	ecember 1923	–28 Februa	ry 2020) wa	s a British-Amer	rican theoretic
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and mather eld theory ondensed	Dyson (15 De	st, mathemati	rices, mathersics and engerinceton, a	ematical formatical fo	own for his work mulation of quant e was professor the Board of Vis	emeritus Atomic Scient

technique in additive number theory, which he developed as part of his proof of Mann's	
theorem; the Dyson tree, a hypothetical genetically-engineered plant capable of growing	
in a comet; the Dyson series, a perturbative series where each term is represented by	
Feynman diagrams; the Dyson sphere, a thought experiment that attempts to explain how	/ -
	-
a space-faring civilization would meet its energy requirements with a hypothetical megas	stru
that completely encompasses a star and captures a large percentage of its power output;	
and Dyson's eternal intelligence, a means by which an immortal society of intelligent	
beings in an open universe could escape the prospect of the heat death of the universe	
beings in an open universe could escape the prospect of the near death of the universe	
by extending subjective time to infinity while expending only a finite amount of energy.	
	
Dyson disagreed with the establishment scientific position that carbon dioxide (CO2)	
is a material driver of planetary temperature increases. He believed that some of the	
effects of increased CO2 levels are favourable and not taken into account by climate	
scientists, such as increased agricultural yield and further that the positive benefits	
of CO2 likely outweigh the negative effects. He was skeptical about the simulation model	İs
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used to predict alimete change arouing that political affects to reduce course of alimete	_
used to predict climate change, arguing that political efforts to reduce causes of climate	

ne Wo	orld Climate Declaration titled "There is no Climate Emergency".
Kh	nudoyor Yusufbekov
idoyo	r Yusufbekovich Yusufbekov (Russian: Худоер Юсуфбекович Юсуфбеков, Тајік: Ху
Осуф	обеков; December 10, 1928—November 27, 1990) was a Soviet scientist and organize
fasis	ntific projects and institutes in Pamir. He was a leading scientist who made a
i scie	munic projects and institutes in Pannir. He was a leading scientist who made a
	
ignifi	cant contribution to the development of biological sciences, whose name is connected
ith a	new direction of the development of plant growing in the arid mountain and highland
errito	ory of Pamir-Alay; a prominent specialist in the field of plant growing, plant
ntrod	uction and pasture economy, meadow studies, phyto-amelioration, and botany, Yusufb
vas a	practicing field researcher, figure of higher education, and professor. In 1968,
	aloned a contact for foldonian conservation the Demin and Alone values that was differen
e dev	eloped a system for fodder improvement in the Pamir and Alay valleys that was differe
om t	he perspective of the ecological and geographical areas and high-altitude zones.

plants in the Pamir area in 1972. In 1970—1975, Khudoyor Yusufbekov developed the master
plan of reconstruction of the Pamir Botanical Garden. In 1969, he became doctor of the
agricultural sciences. In 1976, he became an Academician of the Academy of Sciences of
the Tajik Soviet Socialist Republic. In 1962—1969, he was the director of the Pamir Biological
Station; at the same time in 1965—1990, he was the Chairman of the Bureau of the Pamir
Base; in 1969—1981, the director of the Pamir Biological Institute of the Academy of
Sciences of the Tajik SSR; in 1981—1986, the rector of the Tajik Agricultural Institute
of the Ministry of Agriculture of the USSR; in 1986—1990, the Academician Secretary of
the Biological Department of the Academy of Sciences of the Tajik SSR. From 1989, he
was a Member of the Presidium of Academy of Sciences of the Tajik SSR. Moreover, he was
a state and public figure, the head of the scientific council of the department of biological
science of the Academy of Sciences of the Tajik SSR and a Member of the coordination
council of the department of general biology of the Academy of Sciences of the USSR (1987—1990
He was also a fellow of the Geographical Society of the USSR since 1965, Member of the

	ntral Asian Councils of the Botanical Gardens of the USSR (1972—1990),
Member of the Co	uncil on the "Biological Foundations of the Rational Use and Protection
	cademy of Sciences of the USSR (1976—1990), Member of the Council
on the "Biological	Foundations of the Development of Mountain Territories in Central
Asia" (1975—199	0), Member of the Council of the All-Union Botanical Society (1976—1
990).	
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6 Oswaldo Frota waldo Frota-Pessoa	a (March 30, 1917–March 24, 2010) was a noted Brazilian physician,
	icist. Oswaldo Frota-Pessoa was born in Rio de Janeiro, where he did
all his studies, first	in natural history at the Federal District University (currently
	ry of Rio de Janeiro), graduating in 1938; and subsequently medicine
at the National Sch	ool of Medicine of University of Brazil, graduating in 1941. He got
	at the same school, in 1953 and soon afterwards went abroad on a
scholarship for pos	t-doctoral studies at Columbia University, in New York City, from

position of assi	stant professor at the School of Philosophy, Sciences and Letters of
the Federal Univ	versity of Rio de Janeiro, a post he held until 1958. In that year he
the rederar only	
accepted a new p	position at the University of São Paulo, moving to São Paulo City, where
1 1 211	
ne worked until f	his retirement. He attained a full professorship there in 1978 and was
elected an emeri	tus professor in 1995. In 1964 and 1965 he was a Visiting Professor at
	
the University of	Wisconsin–Madison on a Fulbright Program fellowship. As a scientific
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leader Dr. Frete	Decree held many prominent motitions and accomplish in Cairman
leader, Dr. Frota	n-Pessoa held many prominent positions, such as: specialist in Science
leader, Dr. Frota	
	Pessoa held many prominent positions, such as: specialist in Science Pan American Union (Organization of American States) in Washington,
	n-Pessoa held many prominent positions, such as: specialist in Science
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Education of the	Persona held many prominent positions, such as: specialist in Science Pan American Union (Organization of American States) in Washington, Sol, consultant in Human Genetics for the World Health Organization (1961–1986).
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Education of the D. C. (1955–195 director of the C of the Pan Amer	Persona held many prominent positions, such as: specialist in Science Pan American Union (Organization of American States) in Washington, Solve Pan American Union (Organization of American States) in Washington, Solve Pan American Union (Organization of American States) in Washington, Solve Pan American Union (1961–1986) Solve Pan American Union (Organization of American States) in Washington, Solve Pan American Union (1961–1986) Solve Pan American Union (1968–1973), director of the Centro de Estudos sobre Currículo (1961–1986)

41 1	
nore than 1	30 research papers on genetics and about 500 popularization articles. His
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naın researc	ch interests were the systematics of Drosophila, the genetics of human population
ovtogonotics	s, medical genetics and genetic counseling, and genetics in psychiatry. Dr.
ytogenetics	, medical genetics and genetic counseling, and genetics in psychiatry. Dr.
	. <u> </u>
Frota-Pesso	a was always one of the most active and respected enthusiasts for the teaching
	
of biology a	nd the popularization of science and a promoter of public understanding of
science. He	actually taught science and biology in secondary schools of the public system
of Rio de Ja	neiro from 1939 to 1958. Based on this experience, he wrote one of the first
textbooks o	n biology for secondary education, which became a best-seller and was publishe
in monte odi	tions. In all, he muhlished 26 toutheales and 17 guides for saiones and highest
III IIIaliy edi	tions. In all, he published 26 textbooks and 17 guides for science and biology
teachers Fo	or these efforts, he won the UNESCO Kalinga Prize for the Popularization of
teachers. Te	These chorts, he won the Civilseo Runniga Trize for the Topularization of
	the CNPq José Reis Award for the Divulgation of Science. He was also decorate
Science and	
Science and	
	lian government with the Great Cross of the Brazilian Order of Scientific
by the Brazi	

Richard	Feynman
	s Feynman (; May 11, 1918–February 15, 1988) was an American theoretical
physicist, kn	nown for his work in the path integral formulation of quantum mechanics,
the theory of	quantum electrodynamics, the physics of the superfluidity of supercooled
liquid heliur	m, as well as his work in particle physics for which he proposed the parton
model. For o	contributions to the development of quantum electrodynamics, Feynman received
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	ize in Physics in 1965 jointly with Julian Schwinger and Shin'ichirō Tomonaga.
	ize in Physics in 1965 jointly with Julian Schwinger and Shin'ichirō Tomonaga.
Feynman dev	
Feynman dev	veloped a widely used pictorial representation scheme for the mathematical
Feynman dev	veloped a widely used pictorial representation scheme for the mathematical
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Feynman dev expressions as Feynman of the world	describing the behavior of subatomic particles, which later became known diagrams. During his lifetime, Feynman became one of the best-known scientists In a 1999 poll of 130 leading physicists worldwide by the British journal

	ttle Challenger disaster. Along with l	his work in theoretical physics, Feyn	man
	ted with pioneering the field of quan	tum computing and introducing the	
concept of nan	otechnology. He held the Richard C.	Tolman professorship in theoretical	
physics at the	California Institute of Technology. Fo		
physics throug	n both books and lectures, including		
called There's	Plenty of Room at the Bottom and the		
			
lectures, The	Feynman Lectures on Physics. Feynman	nman also became known	through his
lectures, The lectures are lectures are lectures.		nman also became known	through his
mi-autobiograp			_
mi-autobiograp	hical	nat Do You Care What Other People	Think?,
books Surely and books wri	hical You're Joking, Mr. Feynman! and Wh	by Ralph Leighton and the biography	Think?,

a patent-like document used in the Soviet Union) titled "Free-precession proton microscope" Soon afterwards he filed three more applications. The second of his application (filed in March of 1960) comprised a detailed description of the MRI principles, as was confirmed in order recently. Originally this application was rejected as "unrealizable". However, 1984 an Invention Certificate № 1112266 "A method for determination of internal structure of material objects" was finally issued in 1984, only after this method was demonstrated in other countries. After leaving the military, Ivanov returned to Leningrad, where he introlled in Saint Petersburg Electrotechnical University, which he graduated from in	Resonance Imaging, decades before this technique was demonstrated by Paul Lauterbur	r. =
p with the idea of using the recently discovered phenomenon of Nuclear Magnetic Resonance of imaging purposes. In 1959, he filed his first application for Invention Certificate a patent-like document used in the Soviet Union) titled "Free-precession proton microscope" application afterwards he filed three more applications. The second of his application (filed in March of 1960) comprised a detailed description of the MRI principles, as was confirmed in order recently. Originally this application was rejected as "unrealizable". However, in 1984 an Invention Certificate № 1112266 "A method for determination of internal structure of material objects" was finally issued in 1984, only after this method was demonstrated in other countries. After leaving the military, Ivanov returned to Leningrad, where he introlled in Saint Petersburg Electrotechnical University, which he graduated from in		_
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(VNIIM). In 1980 he receiv	red his habilitation, and 1984 he	was promoted to the rank of
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vanov continued his career	as a prolific inventor. His name	is listed on over 100 patents.
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